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Diptera, Drosophilidae: historical occurrence in Brazil

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Abstract:
This study presents a literature review of Drosophilidae (Diptera) species occurrence in Brazil. The number of species recorded is 304, with *Drosophila* being the genus with the greatest number of species, followed by *Zygothrica*, *Hirtodrosophila* and *Diathoneura*, which belong to the Drosophilinae subfamily. *Drosophila* was shown to be the most investigated taxon in the family, with the best resolved species distribution. The low number of records of species from other genera indicates the paucity of studies specifically designed to investigate these species. Records of species for some regions of the country like the north and northeast, as well as for some biomes like Caatinga, Pantanal and the Pampas, are likewise rare. Apart from the banana bait, different collection methods may be necessary, like the collection at other oviposition resources, the use of baits other than fermenting fruit, and the adoption of sampling approaches that do not use baits.

Introduction

Drosophilidae species have been described since 1787, when Fabricius characterized *Musca funebris*, which later was repositioned in a new genus and became *Drosophila funebris*, the type-species of the family. Today, Drosophilidae encompass 3,952 species distributed in 73 genera belonging to two subfamilies (Bächli 2007), Steganinae and Drosophilinae. Two monotypical genera, *Apacrochaeta* Duda 1927 and *Sphyrnoceps* de Meijere 1916, have not been included in any subfamily.

Drosophilinae is the most diversified subfamily, with 3,240 species distributed across 44 genera (Bächli 2007), among which *Drosophila* Fallén 1823 is the largest, with 1,149 species recorded. When compared to the data obtained by Ashburner (1989), the number of *Drosophila* species is smaller, because some of the subgenera it originally contained were raised to genus level, such as *Scaptodrosophila* (Duda 1923), *Hirtodrosophila* (Duda 1923) and *Lordiphosa* (Basden 1961) (Grimaldi 1990a). Moreover, several Hawaiian species and the *Antopocerus* genus (Kaneshiro 1976) were incorporated into the genus *Idiomyia* Grimshaw 1901, while the subgenus *Engiscaptomyza* (Kaneshiro 1969), also native to Hawaii, was relocated to *Scaptomyza* Hardy 1849 (Grimaldi 1990a; O'Grady et al. 2003).

The subfamily Steganinae, which conserves several primitive characteristics of the family, nowadays comprises 702 species that belong to 29 genera (Bächli 2007). The Drosophilidae genera and respective number of species are listed in Table 1.

Sturtevant (1921) studied the distribution of Drosophilidae species known in the different biogeographic zones, and originally found 82 species distributed across 13 genera in Neotropical region. Yet, nowadays these numbers are downsized to 70 and 10, respectively, as the genera *Curtonotum* (Macquart 1843), *Blaesochaetophora* (Czerny 1904) and *Aulacigaster* (Macquart 1835), which contained 12 of the species listed by Sturtevant, have been relocated into other families.

More specifically, Sturtevant (1921) reports the presence of six genera and 23 species of the family in South America. With the increase in the number of studies on the Neotropical

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fauna, some species lists were prepared in certain countries, specially for the *Drosophila* genus, like Mexico (Patterson and Mainland 1944), El Salvador (Heed 1957), Colombia (Hunter 1969), Venezuela (Hunter 1970) and Chile (Brncic 1987). These lists include the one prepared for Brazil by Mourão et al. (1965).

Thus, the lists and nomenclature studies were somehow common for *Drosophila* in the past (apart from those already mentioned, there are the studies by Patterson and Wheeler (1949), Patterson and Stone (1952) and Wheeler (1959). Yet, the survey made by Val et al. (1981) has so far been the largest compilation of data on Neotropical drosophilids, addressing relevant knowledge of species distribution and ecology. Considering the recent taxonomy studies, specially those by G. Bächli, D. Grimaldi and C.R. Vilela, as well as the species and ecology surveys conducted, mainly those by F.M. Sene, R. Tidon, F.C. Val and V.L.S. Valente and coworkers, the panorama of Drosophilidae species distribution and diversity in Brazil has indeed been enlarged.

Table 1. Genera of the Drosophilidade family (based on Bächli 2007), listed in alphabetical order. Number of species described for the taxon in brackets.

Drosophilidae Rondani 1856 (3952 spp.)	(Continued Drosophilinae)
Drosophilinae Rondani 1856 (3235 spp.)	*Styloptera* Duda 1924 (10 spp.)
Baeodrosophila Wheeler and Takada 1964 (5 spp.)	*Tambourella* Wheeler 1957 (3 spp.)
Balara Bock 1982 (1 sp.)	*Zaprionus* Coquillett 1901 (56 spp.)
Bialba Bock 1989 (1 sp.)	*Zapriothrica* Wheeler 1956 (5 spp.)
Celidosoma Hardy 1965 (1 sp.)	*Zaropunis* Tsacas 1990 (1 sp.)
Chymomyza Czerny 1903 (56 spp.)	*Zygothrica* Wiedemann 1830 (124 spp.)
Cladochaeta Coquillett 1900 (124 spp.)	**Steganinae** Hendel 1917 (712 spp.)
Collessia Bock 1982 (5 spp.)	*Acletoxenus* McAlpine 1968 (4 spp.)
Colocasiomyia de Meijere 1914 (26 spp.)	*Allopygaea* Tsacas 2000 (3 spp.)
Dettopsomyia Lamb 1914 (13 spp.)	*Amiota* Loew 1862 (116 spp.)
Diathoneura Duda 1924 (39 spp.)	*Apenthecia* Tsacas 1983 (12 spp.)
Dichaetophora Duda 1940 (61 spp.)	*Apsiphortica* Okada 1971 (2 spp.)
Dicladochaeta Malloch 1932 (1 sp.)	*Cacoxenus* Loew 1858 (36 spp.)
Drosophila Fallen 1823 (1149 spp.)	*Crincosia* Bock 1982 (3 spp.)
Hirtodrosophila (Duda 1923) (158 spp.)	*Electrophortica* Hennig 1965 (1 sp.)
Hypselothyrea de Meijere 1906 (30 spp.)	*Eostegana* Hendel 1913 (13 spp.)
Idiomyia Grimshaw 1901 (380 spp.)	*Erima* Kertesz 1899 (1 sp.)
Jeannelopsis Seguy 1938 (3 spp.)	*Gitona* Meigen 1830 (15 spp.)
Laccodrosophila Duda 1927 (5 spp.)	*Hyalistata* Wheeler 1960 (6 spp.)
Liodrosophila Duda 1922 (64 spp.)	*Leucophenga* Mik 1886 (205 spp.)

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Lissocephala Malloch 1929 (32 spp.)	*Luzonimyia* Malloch 1926 (4 spp.)
Lordiphosa (Basden 1961) (58 spp.)	*Mayagueza* Wheeler 1960 (1 sp.)
Marquesia Malloch 1932 (2 spp.)	*Neorhinoleucophenga* Duda 1924 (2 spp.)
Microdrosophila Malloch 1921 (77 spp.)	*Paraleucophenga* Hendel 1914 (8 spp.)
Miomyia Grimaldi 1987 (1 sp.)	*Paraphortica* Duda 1934 (1 sp.)
Mulgravea Bock 1982 (14 spp.)	*Pararhinoleucophenga* Duda 1924 (2 spp.)
Mycodrosophila Oldenberg 1914 (118 spp.)	*Parastegana* Okada 1971 (3 spp.)
Neotanygastrella Duda 1925 (18 spp.)	*Phortica* Schiner 1862 (97 spp.)
Palmomyia Grimaldi *in* Grimaldi *et al.* 2003 (1 sp.)	*Pseudiastata* Coquillett 1908 (6 spp.)
Palmophila Grimaldi *in* Grimaldi *et al.* 2003 (2 spp.)	*Pseudocacoxenus* Duda 1925 (1 sp.)
Paraliodrosophila Duda 1925 (4 spp.)	*Pseudostegana* Okada 1978 (33 spp.)
Paramycodrosophila Duda 1924 (16 spp.)	*Pyrgometopa* Kertesz 1901 (1 sp.)
Phorticella Duda 1923 (11 spp.)	*Rhinoleucophenga* Hendel 1917 (18 spp.)
Poliocephala Bock 1989 (1 sp.)	*Soederbomia* Hendel 1938 (1 sp.)
Protochymomyza Grimaldi 1987 (1 sp.)	*Stegana* Meigen 1830 (116 spp.)
Samoaia Malloch 1934 (7 spp.)	*Trachyleucophenga* Hendel 1917 (1 sp.)
Scaptodrosophila (Duda 1923) (279 spp.)	**Incertae sedis** (2 spp.)
Scaptomyza Hardy 1849 (262 spp.)	*Apacrochaeta* Duda 1927 (1 sp.)
Sphaerogastrella Duda 1922 (10 spp.)	*Sphyrnoceps* de Meijere 1916 (1 sp.)

Material and Methods

This study is a compilation of data obtained from a wide-ranging literature review of the records of Drosophilidae species in Brazil. The authors are aware that some of the extant records may not have been recovered in the survey process. The information retrieved was not necessarily wholly generated in studies on Drosophilidae taxonomy or ecology, since the studies consulted include those focused on evolution, population genetics, descriptive and comparative biology of the genus, for which several records were made over collections directed to find certain species. Only the Brazilian states where each species was recorded are indicated in the geographic distribution information.

Results and Discussion

The present literature review found 304 Drosophilidae species distributed in 18 genera in Brazil (Table 2, Appendix I). Among the genera recorded, *Chymomyza* Czerny 1903, *Cladochaeta* Coquillett 1900, *Dettopsomyia* Lamb 1914, *Diathoneura* Duda 1924, *Drosophila*, *Hirtodrosophila*, *Microdrosophila* Malloch 1921, *Mycodrosophila* Oldenberg 1914, *Neotanygastrella* Duda 1925, *Scaptodrosophila*, *Scaptomyza*, *Zaprionus* Coquillett 1901 and *Zygothrica* Wiedemann 1830 belong to the Drosophilinae subfamily; in turn, *Amiota* Loew 1862, *Leucophenga* Mik 1886, *Pseudiastata* Coquillett 1908, *Rhinoleucophenga* Hendel 1917 and *Stegana* Meigen 1830 rank under the Steganinae subfamily. Figure 1 shows the number

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of species recorded for each genus, revealing two prominent genera: *Drosophila* and *Zygothrica*. Ashburner (1989) mentions the probability that the American species of the *Gitona* genus in fact belong to *Rhinoleucophenga*. This classification has been accepted by Bächli (2007) and we followed suit. The genus *Microdrosophila* was collected by Val and Kaneshiro (1988) in the state of São Paulo, though no species was determined in that study. The authors point to these species as likely non-described species, and therefore they are not shown in Figure 1.

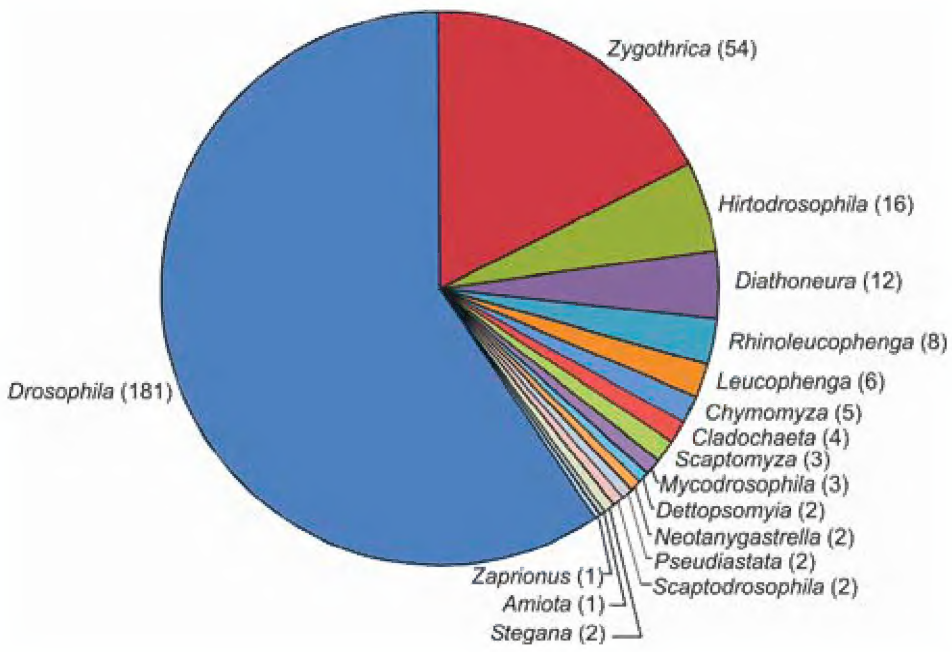

Figure 1. Proportion of recorded species in Brazil for each Drosophilidade genera. Number of species recorded is shown in brackets. The genus *Microdrosophila* is not shown in the figure though Val and Kaneshiro (1988) point that its species were probably non-described species in Brazil.

Thirteen species recorded are exotic - *Dettopsomyia formosa* Lamb 1914, *D. nigrovittata* Malloch 1924, *Drosophila ananassae* Doleschall 1858, *D. busckii* Coquillett 1901, *D. immigrans* Sturtevant 1921, *D. kikkawai* Burla 1954, *D. malerkotliana* Parshad and Paika 1964, *D. melanogaster* Meigen 1830, *D. simulans* Sturtevant 1919, *D. virilis* Sturtevant 1916, *Scaptodrosophila latifasciaeformis* Duda 1940, *S. lebanonensis* Wheeler 1949 and *Zaprionus indianus* Gupta 1970 - though the majority of the total number is endemic to the New World (Malogolowkin 1946; Hardy 1959; Wheeler 1981; Grimaldi and Nguyen 1999). Yet, only *Cladochaeta*, *Diathoneura*, *Pseudiastata* and *Rhinoleucophenga* are genera for which all species are endemic to the New World (Malogolowkin 1946; Hardy 1959; Wheeler 1981; Grimaldi and Nguyen 1999). All other genera have species also in other biogeographic regions, such as *Zygothrica*, which up to the 1980's was considered an exclusive Neotropical genus (Burla, 1956) and for which some species from Africa and Samoa were only recently described (Grimaldi 1990b; Prigent and Toda 2006).

Drosophila was the genus with most species and the most comprehensively studied in Brazil, which is reflected in the largest size and abundance of *Drosophila* and *Sophophora* subgenera. This should come as no surprise, as *Drosophila* is widely employed in genetic, evolutionary and behavioral studies worldwide (Powell 1997). Apart from being a model organism in several fields of genetics and evolutionary biology, *Drosophila* has gained the same status in ecology and conservation investigations (Martins, 2001; Tidon et al. 2005). In the light of the fact that *Drosophila* is strongly attracted by baits prepared with fermented fruit, a considerable number of researchers have chosen the approach to collect specimens for their studies.

This feeding preference of drosophilids has made this collection methodology quite popular among researchers on the area, which explains why most studies resort to this kind of bait (Pavan 1959; Sene et al. 1980; Tidon 2006; De Toni et al. 2007; among others). This bait attracts mainly the frugivorous species, such as most drosophilid species recorded in Brazil, while species that are only seldom attracted include fungivorous, florivorous, cactophilic and leaf-mining species, and/or species that feed on decomposing wood or that show parasitic/predatory behavior.

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Table 2. Genera, subgenera, groups and number of species of Drosophilidae recorded in Brazil, in alphabetical order (complete data in Appendix I).

Subfamily	Genus	Subgenus	Group	Number of Species
Drosophilinae	*Chymomyza*		*aldrichii* Okada 1976	3
			procnemis Okada 1976	2
	Cladochaeta		*armata* Grimaldi and Nguyen 1999	1
			bomplandi Grimaldi and Nguyen 1999	1
			Not assigned to group	2
	Dettopsomyia			2
	Diathoneura	*Diathoneura* Duda 1924		12
	Drosophila	*Dorsilopha* Sturtevant 1942	*busckii* Sperlich 1980	1
		Drosophila Fállen 1823	*annulimana* Pavan and Cunha 1947	9
			antioquia Vilela and Bächli 2000	1
			aureata Wasserman 1982	1
			bromeliae Patterson and Stone 1952	4
			calloptera Freire-Maia and Pavan 1950	4
			canalinea Wheeler 1957	6
			caponei Ratcov and Vilela 2007	1
			cardini Sturtevant 1942	6
			coffeata Vilela and Bächli 1990	3
			dreyfusi Patterson and Stone 1952	6
			flavopilosa Wheeler et al. 1962	6
			guarani Dobzhansky and Pavan 1943	6
			immigrans Sturtevant 1942	1
			mesophragmatica Brncic and Koref-Santibanez 1957	2
			morelia Vilela and Bächli 2004	2
			onycophora Vilela and Bächli 1990	2
			pallidipennis Patterson and Stone 1952	1
			peruensis Ratcov and Vilela 2007	3
			peruviana Throckmorton 1974	1
			polychaeta Sturtevant 1942	1
			repleta Sturtevant 1942	33
			sticta Clayton and Wheeler 1975	1

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Subfamily	Genus	Subgenus	Group	Number of Species
			tripunctata Sturtevant 1942	42
			virilis Patterson 1941	1
			Not assigned to group	2
		Phloridosa Sturtevant 1942		2
		Siphlodora Patterson and Mainland 1944		1
		Sophophora Sturtevant 1939	*melanogaster* Sturtevant 1927	5
			saltans Sturtevant 1940	12
			willistoni Sturtevant 1940	13
		Not assigned to subgenera		2
	Hirtodrosophila		*hirticornis* (Burla 1956)	4
			magnarcus (Frota-Pessoa 1951)	4
			thoracis (Grimaldi 1987)	2
			Not assigned to group	6
	Mycodrosophila			3
	Neotanygastrella			2
	Scaptodrosophila		*latifasciaeformis* (Burla 1954)	1
			rufifrons (Papp et al. 1999)	1
	Scaptomyza	*Mesoscaptomyza* Hackman 1959	*vittata* Wheeler 1952	2
			Not assigned to group	1
	Zaprionus	*Zaprionus* Coquillett 1901	*armatus* Chassagnard and Tsacas 1993	1
	Zygothrica		*atriangula* Burla 1956	6
			bilineata Grimaldi 1987	1
			candens Burla 1956	1
			dispar Burla 1956	15
			fuscina Grimaldi 1987	2
			hypandriata Grimaldi 1987	3
			orbitalis Grimaldi 1987	1
			virgatalba Grimaldi 1987	1
			vittatifrons Burla 1956	6
			vittimaculosa Grimaldi 1987	2
			Not assigned to group	16
Steganinae	*Amiota*	*Amiota* Loew 1862		1
	Leucophenga	*Leucophenga* Mik 1886		6
	Pseudiastata	*Pseudiastata* Coquillett 1908		2
	Rhinoleucophenga			8
	Stegana	*Ceratostylus* Enderlein 1922		1
		Steganina Wheeler 1960		1

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This large volume of information on one same taxon is highly relevant for the knowledge on the dynamics of the Neotropical fauna, as it is only based on model organisms or taxa that researchers may clarify issues related to biodiversity, species interaction, metapopulation dynamics, endemism areas and others.

In spite of the several studies on *Drosophila* conducted in Brazil as a whole, these studies do not evenly cover all the country's territory (Table 3, Figure 2). Most species have been recorded in southeastern Brazil, where the research on *Drosophila* actually started with some studies conducted at specific collection sites. Some surveys have lately been carried out in southern Brazil, specially on the coast of the State of Santa Catarina, where recent species surveys are being conducted by research groups of P.R.P. Hofmann and V.L.S. Valente.

Generally speaking, the northeastern region of the country has produced a relatively small number or records (with the exception of the state of Bahia). Northern Brazil likewise remains little explored, as the number of species expected for the region should be at least similar to that for southeastern and southern Brazil, due to the Amazon biome. If the endemism rates are similar across the different Brazilian biomes, then the Amazon should have the highest species richness, as the area the biome covers exceeds that of the Atlantic Forest biome. The main records for species from the north were generated in ground-breaking papers, such as those by Duda (1925; 1927), and some more recent investigations (Martins 2001; Silva and Martins 2004; De Toni et al. 2005).

Table 3. Number of *Drosophila* species and other genera recorded in each Brazilian state.

Region	Brazilian states		*Drosophila*	Other genera
North	Acre	AC	10	1
	Amapá	AP	0	1
	Amazonas	AM	34	5
	Pará	PA	42	24
	Rondônia	RO	1	7
	Roraima	RR	5	1
	Tocantins	TO	2	0
Northeast	Alagoas	AL	0	0
	Bahia	BA	41	6
	Ceará	CE	2	0
	Maranhão	MA	11	3
	Paraíba	PB	11	1
	Pernambuco	PE	7	2
	Piauí	PI	2	2
	Rio Grande do Norte	RN	8	1
	Sergipe	SE	1	0
Center-West	Distrito Federal	DF	44	2
	Goiás	GO	20	1
	Mato Grosso	MT	23	7
	Mato Grosso do Sul	MS	31	4
Southeast	Espirito Santo	ES	16	3
	Minas Gerais	MG	61	3
	Rio de Janeiro	RJ	54	53
	São Paulo	SP	120	57
South	Paraná	PR	42	2
	Rio Grande do Sul	RS	56	5
	Santa Catarina	SC	107	18

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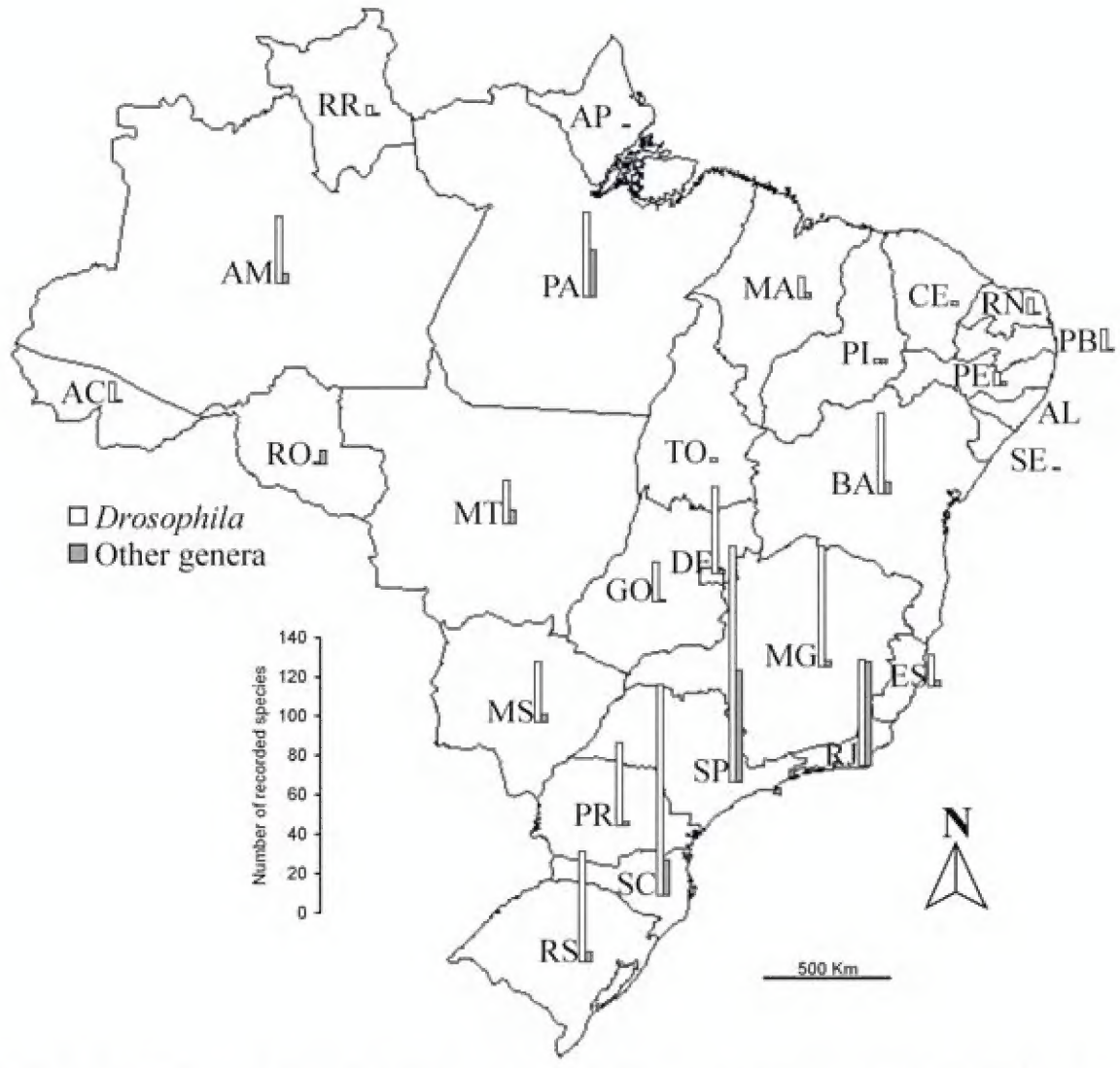

Figure 2. Number of *Drosophila* species and other genera recorded in each Brazilian state. The code for each state is presented in Table 3.

Another relevant aspect on is the lack of information on other genera, apart from *Drosophila*, as all species records are for the states of São Paulo and Rio de Janeiro. These records are sporadic, and the number of studies conducted to investigate these groups in Brazil is very small, when compared to the number of studies on *Drosophila*. For example, most records for *Rhinolecophenga* are from one study only (Malogolowkin 1946). Records absence may be associated to the need for a taxonomic review for some genera, like *Amiota*, *Leucophenga*, *Microdrosophila*, *Mycodrosophila*, *Pseudiastata*, *Rhinoleucophenga*, *Scaptomyza* and *Stegana*. Most species from these genera were described before the 1970's, and the characteristics adopted in the descriptions are unsatisfactory for an ideal characterization of the collected material, since detailed descriptions of male genitalia are required to properly identify collected specimens.

Apart from this, 95 out of the 304 Drosophilidae species in Brazil have one single record. From these 95 single-record, 43 belong to *Drosophila* and the other 52 belong to genera *Chymomyza* (four species), *Cladochaeta* (two species), *Diathoneura* (eight species), *Hirtodrosophila* (nine species), *Leucophenga* (three species), *Mycodrosophila* (one species), *Neotanygastrella* (one species), *Rhinoleucophenga* (five species), *Scaptodrosophila* (one species), *Scaptomyza* (one species) and *Stegana* (one species) (Appendix I).

Val et al. (1981) mention that a large number of Drosophilidae has not been given the deserved attention by researchers. Such scenario has not changed since 1981. Grimaldi (1987) and Grimaldi and Nguyen (1999) report the paucity of information on the genera *Zygothrica* and *Cladochaeta* in South America, specially in Brazil, where only four from 124 *Cladochaeta* described species have been collected.

Yet another aspect that points to the workload expected for researchers on drosophilids is that a considerable number of our species has few

records, and in many cases only type locality is known (Val et al. 1981). *Zygothrica* records for the state of São Paulo, for instance, were virtually all listed by Val and Kaneshiro (1988).

This scenario is common for most Neotropical Diptera families (Brown 2005). Many Diptera species have not even been formally described. Wheeler (1986) estimated that roughly 30% of *Drosophila* species still remained to be described. Such number was very likely a underestimation, as after 20 years the number of *Drosophila* species of that time increased by 27%, and even so there is little doubt that all *Drosophila* species have been described. In 1988, Val and Kaneshiro stated that nearly 50% of the *Drosophila* species captured in the "Estação Biológica de Boracéia" in the state of São Paulo (the Brazilian state most thoroughly sampled) had never been described. The same was observed for the recent collections conducted by Medeiros and Klaczko (2004). Similar situation was seen in the State of Santa Catarina, where roughly 60 Drosophilidae species collected are yet to be described.

In order to assemble a comprehensive databank for ecological and environmental studies, it is important to complete the roll call of *Drosophila* species with banana baits across the remaining Brazilian territory. Such importance is explained by the great value drosophilids have as model organisms, even as bioindicators, for a variety of studies (Parsons 1991; Martins 2001; Tidon 2006). At the same time, it is crucial to describe any new species being collected in the territory.

Moreover, as a considerable part of drosophilid material deposited in zoological collections remains uncharacterized, a review of some genera - as said before - and of that material gains relevance to the assessment of Brazilian biodiversity. Also, collection strategies that resort to fruits other than banana are needed, such as the (1) collection at resources onto which Drosophilidae species lay their eggs - as native fruits, fungi, flowers and decomposing leaves, (2) collection using baits with other fermenting fruits, and (3) sampling approaches that do not utilize baits. With this in mind, Malaise baits, which have proved their efficiency to capture Diptera (Brown 2005), could be used. Also, these sample collections should include the different Brazilian biomes — the Atlantic Forest, the Amazon, the Cerrado, the Caatinga, Pantanal and Pampas (IBGE 2006), as the last three are mostly unexplored for the occurrence of the Drosophilid fauna.

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Appendix I. List of Drosophilidae species occurring in Brazil. The municipality of the type locality is informed, when available. Numbers after each Brazilian state in the geographical distribution show the studies in which records are made. The code for each state is presented in Table 3.

Drosophilidae family
Drosophilinae subfamily
Chymomyza genus
aldrichii group
1. ***Chymomyza bicoloripes*** (Malloch)
Drosophila bicoloripes Malloch 1926:31.
Chymomyza maculipennis Hendel 1936:97.
Type locality: Higuito, San Mateo, Costa Rica.
Geographical distribution: **PA** [1].

2.***Chymomyza laevilimbata*** Duda
Chymomyza laevilimbata Duda 1927:65.
Type locality: Pichis, Peru.
Geographical distribution: [localities not mentioned] [2, 3].

3. ***Chymomyza mesopecta*** Wheeler
Chymomyza mesopecta Wheeler 1968:435.
Type locality: Lima, Peru.
Geographical distribution: **SC** [4].

procnemis group
4.***Chymomyza pectinifemur*** Duda
Chymomyza pectinifemur Duda 1927:66.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [5].

5.***Chymomyza procnemis*** (Williston)
Drosophila procnemis Williston 1896:412.
Type locality: Saint Vicente, West Indians.
Geographical distribution: **MT** [6].

Cladochaeta genus
armata group
6.***Cladochaeta armata*** (Frota-Pessoa)
Clastopteromyia armata Frota-Pessoa 1947:195.
Type locality: Campos de Jordão, São Paulo, Brazil.
Geographical distribution: **SP** [7, 8]; **RJ** [7]; **SC** [8].

bomplandi group
7.***Cladochaeta bomplandi*** (Malloch)
Diathoneura bomplandi Malloch 1934:438.
Type locality: Bonpland, Misiones, Argentina.
Geographical distribution: **SP** [7, 8]; **SC** [8, 9].

Not assigned to group
8.***Cladochaeta minuta*** (Duda)
Diathoneura minuta Duda 1925:182.
Type locality: Buenaventura, Colombia.
Geographical distribution: **RJ** [5, 7].

9.***Cladochaeta travassosi*** (Frota-Pessoa)
Clastopteromyia travassosi Frota-Pessoa 1947:214.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [7, 8].

Dettopsomyia genus
10. ***Dettopsomyia formosa*** Lamb
Dettopsomyia formosa Lamb 1914:350.
Type locality: Mahe, Seychelles.
Geographical distribution: [localities not mentioned] [3].

11. ***Dettopsomyia nigrovittata*** (Malloch)
Drosophila nigrovittata Malloch 1924:352.
Dettopsomyia argentifrons Okada 1956:55.
Type locality: Sydney, Australia.
Geographical distribution: [localities not mentioned] [3].

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Diathoneura genus
Diathoneura subgenus
12. ***Diathoneura albinota*** (Wheeler)
Clastopteromyia albinota Wheeler, 1957:108.
Type locality: Cerro la Campana, Panama.
Geographical distribution: [localities not mentioned] [10].

13. ***Diathoneura bicolor*** (Frota-Pessoa)
Clastopteromyia bicolor Frota-Pessoa 1947:211.
Type locality: Campos de Jordão, São Paulo, Brazil.
Geographical distribution: **SP** [7].

14. ***Diathoneura borgmeieri*** Duda
Diathoneura borgmeieri Duda 1927:92.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [5, 7, 11].

15. ***Diathoneura brasiliensis*** Duda
Diathoneura brasiliensis Duda 1927:93.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [5, 7, 11]; **SC** [9, 12].

16. ***Diathoneura carrerai*** (Frota-Pessoa)
Clastopteromyia carrerai Frota-Pessoa 1947:200.
Type locality: Cantareira, São Paulo, Brazil.
Geographical distribution: **SP** [7, 13, 14].

17. ***Diathoneura cavalcantii*** (Frota-Pessoa)
Clastopteromyia cavalcantii Frota-Pessoa 1947:204.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [7].

18. ***Diathoneura iheringi*** (Frota-Pessoa)
Clastopteromyia iheringi Frota-Pessoa 1947:206.
Type locality: Petrópolis, Rio de Janeiro, Brazil
Geographical distribution: **RJ** [7].

19. ***Diathoneura lopesi*** (Frota-Pessoa)
Clastopteromyia lopesi Frota-Pessoa 1947:213.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [7]; **BA** [15].

20. ***Diathoneura opaca*** (Williston)
Drosophila opaca Williston 1896:411.
Type locality: Saint Vicente, West Indians.
Geographical distribution: **RJ** [7].

21. ***Diathoneura montei*** (Frota-Pessoa)
Clastopteromyia montei Frota-Pessoa 1947:210.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [7, 13].

22. ***Diathoneura pilifrons*** (Frota-Pessoa)
Clastopteromyia pilifrons Frota-Pessoa 1947:208.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [7].

23. ***Diathoneura splendida*** (Williston)
Drosophila splendida Williston 1896:412.
Type locality: Saint Vicente, West Indians.
Geographical distribution: **RJ** [7].
Drosophila genus
Dorsilopha subgenus
busckii group
24. ***Drosophila busckii*** Coquillett
Drosophila busckii Coquillett 1901:18 (as *buskii* lapsus).
Drosophila rubrostriata Becker 1908:155.
Drosophila plurilineata Villeneuve 1911:83.
Type locality: Washington, USA.
Geographical distribution: **BA** [16]; **DF** [17, 18, 19, 20, 21]; **GO** [22]; **MG** [16, 23, 24]; **MS** [17]; **PR** [25]; **RJ** [5, 17]; **RS** [26, 27, 28, 29, 30, 31]; **SC** [9, 12, 17, 32]; **SP** [14, 17, 33, 34].

Drosophila subgenus
annulimana group
25. ***Drosophila annulimana*** Duda
Drosophila annulimana Duda 1927:117
Type locality: Mapiri, Bolivia.
Geographical distribution: **AM** [35]; **MG** [24]; **SC** [9, 12, 32, 36]; **SP** [14, 17, 22, 25, 37, 38, 39].

26. ***Drosophila aragua*** Vilela and Pereira
Drosophila aragua Vilela and Pereira 1982:237.
Type locality: Santa Maria da Serra, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **SP** [33, 38, 39].

27. ***Drosophila araicas*** Pavan and Nacrur
Drosophila araicas Pavan and Nacrur 1950:264.
Type locality: Pirassununga, São Paulo, Brazil.
Geographical distribution: **AM** [35]; **PA** [13]; **SP** [40].

28. ***Drosophila arapuan*** Cunha and Pavan
Drosophila arapuan Cunha and Pavan, in Pavan and Cunha 1947:36.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **RJ** [41]; **SC** [9]; **SP** [13, 38, 39].

29. ***Drosophila ararama*** Pavan and Cunha
Drosophila ararama Pavan and Cunha 1947:28.
Type locality: Bertioga, São Paulo, Brazil.
Geographical distribution: **BA** [15, 17]; **DF** [20, 21]; **MG** [24]; **MS** [17]; **PA** [38]; **SC** [12, 36]; **SP** [13, 17, 34, 39, 41, 42].

30. ***Drosophila arassari*** Cunha and Frota-Pessoa
Drosophila arassari Cunha and Frota-Pessoa, in Pavan and Cunha 1947:32.
Type locality: Campos de Jordão, São Paulo, Brazil.
Geographical distribution: **MG** [17]; **SC** [9, 12, 32, 36]; **SP** [13, 38, 41].

31. ***Drosophila arauna*** Pavan and Nacrur
Drosophila arauna Pavan and Nacrur 1950:268.
Type locality: Pirassununga, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **SP** [13, 38, 40].

32. ***Drosophila schineri*** Pereira and Vilela
Drosophila schineri Pereira and Vilela 1987:15.
Type locality: Peruíbe, São Paulo, Brazil.
Geographical distribution: **RS** [43]; **SC** [9, 12; 32]; **SP** [38, 44].

33. ***Drosophila tarsata*** Schiner
Drosophila tarsata Schiner 1868:240.
Type locality: Venezuela.
Geographical distribution: **SC** [9, 45].
antioquia group

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34. ***Drosophila freiremaiai*** Vilela and Bächli
Drosophila freiremaiai Vilela and Bächli 2000:58.
Type locality: Marko, Amazonas, Brazil.
Geographical distribution: **AM** [46].

aureata group
35. ***Drosophila aureata*** Wheeler
Drosophila aureata Wheeler 1957:83.
Type locality: San Jose, Costa Rica.
Geographical distribution: **MG** [24].

bromeliae group
36. ***Drosophila aguape*** Val and Marques
Drosophila aguape Val and Marques 1996:224.
Type locality: Taiamã, Mato Grosso, Brazil.
Geographical distribution: **MT** [47].

37. ***Drosophila bromeliae*** Sturtevant
Drosophila bromeliae Sturtevant 1921:72.
Type locality: Havana, Cuba.
Geographical distribution: **SP** [48].

38. ***Drosophila bromelioides*** Pavan and Cunha
Drosophila bromelioides Pavan and Cunha 1947:7.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **BA** [15]; **MG** [24]; **RJ** [49]; **RS** [26, 50]; **SC** [9, 12, 32, 50]; **SP** [41].

39. ***Drosophila speciosa*** Silva and Martins
Drosophila speciosa Silva and Martins 2004:435.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **PA** [51].

calloptera group
40. ***Drosophila atrata*** Burla and Pavan
Drosophila atrata Burla and Pavan 1953:307.
Type locality: Pirassununga, São Paulo, Brazil.
Geographical distribution: **BA** [52]; **DF** [20, 21]; **MG** [52]; **PA** [52]; **RJ** [17, 52]; **RS** [26]; **SC** [9, 12, 32, 45, 53]; **SP** [13, 14, 17, 39, 52, 54].

41. ***Drosophila calloptera*** Schiner
Drosophila calloptera Schiner 1868:239.
Paramycodrosophila tephritoptera Hendel 1936:95.
Type locality: Venezuela.
Geographical distribution: **AC** [52]; **AM** [52]; **PA** [1, 52]; **PE** [52]; **RJ** [5, 52]; **SC** [9]; **SP** [52, 55, 56].

42. ***Drosophila quadrum*** (Wiedemann)
Trypeta quadrum Wiedemann 1830:507.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **SC** [9, 12, 32, 36]; **SP** [14, 17, 39, 52]; **RS** [26, 52].

43. ***Drosophila schildi*** Malloch
Drosophila schildi Malloch 1924:10.
Paramycodrosophila poeciloptera Duda 1925:226.
Drosophila poecila Burla and Pavan 1953:311.
Type locality: Higuito, San Mateo, Costa Rica.
Geographical distribution: **DF** [20, 21]; **RJ** [5]; **SC** [9]; **SP** [39, 52].

canalinea group
44. ***Drosophila albomarginata*** Duda
Drosophila albomarginata Duda 1927:173.
Type locality: Mapiri, Bolivia.
Geographical distribution: **SP** [39].

45. ***Drosophila canalinea*** Patterson and Mainland
Drosophila canalinea Patterson and Mainland 1944:50.
Type locality: San Juan, Veracruz, Mexico.
Geographical distribution: **AM** [35]; **CE** [57]; **GO** [58]; **PA** [58]; **SP** [34, 39, 58].

46. ***Drosophila davidgrimaldii*** Vilela and Bächli
Drosophila davidgrimaldii Vilela and Bächli 1990:58.
Type locality: Suiza, Turrialba, Costa Rica.
Geographical distribution: **PA** [11].

47. ***Drosophila hendeli*** Vilela and Bächli
Drosophila hendeli Vilela and Bächli 1990:59.
Type locality: Santarém, Pará, Brazil.
Geographical distribution: **PA** [11].

48. ***Drosophila piratininga*** Ratcov and Vilela
Drosophila piratininga Ratcov and Vilela 2007:337.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **PR** [59], **SP** [59].

49. ***Drosophila sampa*** Ratcov and Vilela
Drosophila sampa Ratcov and Vilela 2007:339.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [59].

caponei group
50. ***Drosophila caponei*** Pavan and Cunha
Drosophila caponei Pavan and Cunha 1947:4.
Type locality: Mongaguá, São Paulo, Brazil.
Geographical distribution: **MG** [23, 24]; **SC** [9, 12, 32]; **SP** [13, 22, 39, 41, 60].

cardini group
cardini subgroup
51. ***Drosophila cardini*** Sturtevant
Drosophila cardini Sturtevant 1916:336.
Type locality: Havana, Cuba.
Geographical distribution: **AM** [35, 61, 62]; **BA** [16, 63]; **DF** [18, 19, 20, 21, 63]; **MG** [16, 24, 23, 63]; **MS** [63]; **PA** [64]; **PB** [63]; **PR** [25, 63]; **RJ** [43, 63, 64]; **RN** [63]; **RS** [28, 63]; **SC** [12, 32, 63]; **SP** [14, 25, 39, 63, 64].

52. ***Drosophila cardinoides*** Dobzhansky and Pavan
Drosophila cardinoides Dobzhansky and Pavan 1943:21.
Type locality: Iporanga, São Paulo, Brazil.
Geographical distribution: **AC** [22]; **AM** [22, 35, 48, 64]; **BA** [22, 63]; **DF** [19, 20, 21, 63]; **ES** [63]; **GO** [22]; **MA** [22]; **MG** [23, 24, 56]; **MS** [63]; **PA** [22, 58, 64, 65]; **PR** [22, 63]; **RJ** [37, 63]; **RO** [22]; **RR** [22]; **RS** [22, 26, 27, 28, 29, 30, 31, 43, 63, 65, 66, 67]; **SC** [9, 12, 32, 36, 45, 63]; **SP** [13, 14, 22, 37, 58, 63, 64, 68].

53. ***Drosophila neocardini*** Streisinger
Drosophila neocardini Streisinger 1946:111.
Type locality: Teffé, Amazonas, Brazil.
Geographical distribution: **AC** [22]; **AM** [13, 22, 57, 69]; **BA** [22, 63]; **DF** [20, 21]; **MG** [23, 24, 56]; **MS** [63]; **PR** [63]; **RJ** [64, 65]; **RS** [30, 31, 63]; **SC** [9, 12, 32, 36, 45, 53, 63]; **SP**: [14, 22, 39, 63, 64, 70].

54. ***Drosophila neomorpha*** Heed and Wheeler

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Drosophila neomorpha Heed and Wheeler 1957:33.
Type locality: Arima Valley, Trinidad.
Geographical distribution: **MT** [53]; **PA** [53]; **SC** [53].

55. ***Drosophila parthenogenetica*** Stalker
Drosophila parthenogenetica Stalker 1953:347.
Type locality: Atlixco, Puebla, Mexico.
Geographical distribution: **AM** [53]; **MT** [53]; **PA** [53]; **SC** [53].

56. ***Drosophila polymorpha*** Dobzhansky and Pavan
Drosophila polymorpha Dobzhansky and Pavan 1943:19.
Type locality: Bertioga, São Paulo, Brazil.
Geographical distribution: **AC** [22]; **AM** [35]; **BA** [15, 22, 63]; **DF** [18, 19, 20, 21, 63]; **ES** [63]; **GO** [71]; **MA** [22, 58]; **MG** [16, 24, 37, 56, 63]; **MS** [63]; **MT** [22]; **PA** [22, 56, 58]; **PR** [22, 25, 58, 63]; **RJ** [22, 37, 63]; **RR** [22]; **RS** [22, 26, 27, 28, 29, 30, 31, 37, 43, 63, 65, 67, 72]; **SC** [9, 12, 32, 36, 45, 53, 63, 73]; **SP** [13, 14, 22, 25, 33, 34, 37, 39, 55, 56, 58, 60, 63].

coffeata group
57. ***Drosophila coffeata*** Williston
Drosophila coffeata Williston 1896:409.
Drosophila flavolineata Duda 1927:157.
Drosophila umbripennis Hendel 1936:99.
Type locality: Saint Vicente, West Indians.
Geographical distribution: **PA** [1, 11, 74]; **SC** [32]; **SP** [57].

58. ***Drosophila fuscolineata*** Duda
Drosophila fuscolineata Duda 1925:213.
Drosophila castanea Patterson and Mainland 1944:51.
Drosophila fumosa Pavan and Cunha 1947:31.
Type locality: Suiza, Turrialba, Costa Rica.
Geographical distribution: **DF** [20, 21]; **GO** [58]; **MG** [23, 24]; **PA** [58]; **SC** [9, 12, 32]; **SP** [22, 34, 39, 41, 58].

59. ***Drosophila pagliolii*** Cordeiro
Drosophila pagliolii Cordeiro 1963:401.
Type locality: Santa Maria, Rio Grande do Sul, Brazil.
Geographical distribution: **DF** [75]; **RS** [75].

dreyfusi group
60. ***Drosophila briegeri*** Pavan and Breuer
Drosophila briegeri Pavan and Breuer 1954:459.
Type locality: Mongaguá, São Paulo, Brazil.
Geographical distribution: **BA** [76]; **SC** [9, 12]; **SP** [13, 39, 77, 78].

61. ***Drosophila camargoi*** Dobzhansky and Pavan
Drosophila camargoi Dobzhansky and Pavan, in Pavan 1950:6.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **AC** [22, 74]; **AM** [35, 74]; **MA** [74]; **PA** [13, 22, 56, 58, 74, 77].

62. ***Drosophila decemseriata*** Hendel
Drosophila decemseriata Hendel 1936:98.
Type locality: Santarém, Pará, Brazil.
Geographical distribution: **PA** [1, 11].

63. ***Drosophila dreyfusi*** Dobzhansky and Pavan
Drosophila dreyfusi Dobzhansky and Pavan 1943:61.
Type locality: Mogi das Cruzes, São Paulo, Brazil.

Geographical distribution: **MG** [24]; **SC** [9, 12, 36]; **SP** [13, 14, 17, 37, 39, 48, 77].

64. ***Drosophila krugi*** Pavan and Breuer
Drosophila krugi Pavan and Breuer 1954:462.
Type locality: Cantareira, São Paulo, Brazil.
Geographical distribution: **SP** [13, 14, 39, 77, 78].

65. ***Drosophila wingei*** Cordeiro
Drosophila wingei Cordeiro 1964:1.
Type locality: Torres, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [76].

flavopilosa group
66. ***Drosophila cestri*** Brncic
Drosophila cestri Brncic 1978:651.
Type locality: Sapucaia, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [13, 43, 79, 80]; **SP** [81, 82, 83].

67. ***Drosophila corderoi*** Brncic
Drosophila cordeiroi Brncic 1978:649.
Type locality: Porto Alegre, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [13, 79]; **SP** [81, 82, 83].

flavopilosa subgroup
68. ***Drosophila flavopilosa*** Frey
Drosophila flavopilosa Frey 1919:14.
Drosophila dentata Duda 1927:201 (pre-occupied).
Type locality: Valparaiso, Chile.
Geographical distribution: **RS** [79].

69. ***Drosophila hollisae*** Vilela and Pereira
Drosophila hollisae Vilela and Pereira 1992:478.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [82, 83].

nesiota subgroup
70. ***Drosophila incompta*** Wheeler and Takada
Drosophila incompta Wheeler and Takada, in Wheeler et al. 1962:408.
Type locality: Almirante, Bocas del Toro, Panama.
Geographical distribution: **RS**: [13, 43, 79, 80, 84]; **SP** [81, 82, 83].

71. ***Drosophila mariaehelenae*** Vilela
Drosophila mariaehelenae Vilela 1984:64.
Type locality: Santa Izabel, São Paulo, Brazil.
Geographical distribution: **SP** [81, 82, 83].

guarani group
72. ***Drosophila alexandrei*** Cordeiro
Drosophila alexandrei Cordeiro 1951:1.
Type locality: Emboaba, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [85].

guarani subgroup
73. ***Drosophila guaru*** Dobzhansky and Pavan
Drosophila guaru Dobzhansky and Pavan 1943:37.
Type locality: Amalia, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **SC** [9]; **SP** [11, 13, 25, 34, 37, 39].

74. ***Drosophila ornatifrons*** Duda
Drosophila ornatifrons Duda 1927:162.

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Drosophila guarani Dobzhansky and Pavan 1943:36.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **AM** [35]; **BA** [16]; **DF** [18, 20, 21]; **MG** [23, 24]; **PR** [25]; **RJ** [5, 11, 37]; **RS** [26, 28, 29, 72]; **SC** [9, 12, 32, 36]; **SP** [11, 13, 14, 17, 25, 37, 39, 42, 55, 70].

guaramunu subgroup
75. ***Drosophila griseolineata*** Duda
Drosophila griseolineata Duda 1927:161.
Type locality: Mapiri, Bolivia.
Geographical distribution: **BA** [17]; **ES** [17]; **MG** [16, 24, 56]; **PR** [17, 22]; **RJ** [11, 13, 17, 37]; **RS** [17, 26, 27, 28, 29, 30, 31, 43, 66, 72]; **SC** [9, 12, 17, 36, 45, 53]; **SP** [14, 17, 22, 37, 39, 55, 58, 70].

76. ***Drosophila guaraja*** King
Drosophila guaraja King 1947:48.
Drosophila pulla Pavan and Cunha 1947:10.
Type locality: Campos de Jordão, São Paulo, Brazil.
Geographical distribution: **MG** [17, 23, 24]; **PR** [25]; **SC** [9, 12, 32]; **SP** [11, 13, 14, 41, 86].

77. ***Drosophila maculifrons*** Duda
Drosophila maculifrons Duda 1927:122.
Drosophila guaramunu Dobzhansky and Pavan 1943:39.
Type locality: Rosalina, Peru.
Geographical distribution: **DF** [17, 18, 20, 21]; **ES** [17]; **MG** [23, 24]; **MT** [22, 58]; **MS** [17]; **PR** [17, 22, 25, 58]; **RJ** [37]; **RS** [17, 22, 26, 27, 28, 29, 43, 66, 67, 72]; **SC** [9, 12, 32, 36]; **SP** [11, 13, 14, 17, 22, 25, 37, 39, 55, 56, 58, 60].

immigrans group
immigrans subgroup
78. ***Drosophila immigrans*** Sturtevant
Drosophila immigrans Sturtevant 1921:83.
Drosophila brouni Hutton 1901:91.
Drosophila cilifemur Villeneuve 1923:28.
Drosophila flexipilosa Pipkin 1964:238.
Type locality: New York, New York, USA.
Geographical distribution: **BA** [16]; **DF** [17, 19, 20]; **MG** [23, 24]; **MT** [58]; **MS** [17]; **PE** [17, 22]; **PR** [25]; **RJ** [17]; **RS** [26, 27, 28, 29, 31, 43, 67, 72]; **SC** [9, 12, 32, 36, 45]; **SP** [14, 17, 22, 25, 34, 39, 58, 60].

mesophragmatica group
79. ***Drosophila gaucha*** Jaeger and Salzano
Drosophila gaucha Jaeger and Salzano 1953:205.
Type locality: Muitos Capões, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [26, 27, 28, 29, 43, 87, 88, 89]; **SC** [12]; **SP** [88, 89].

80. ***Drosophila mesophragmatica*** Duda
Drosophila mesophragmatica Duda 1927:205.
Drosophila andina Dobzhansky and Pavan 1943:59.
Type locality: Cuzco, Peru.
Geographical distribution: **SC** [9]; **SP** [41].

morelia group
81. ***Drosophila carioca*** Vilela and Bächli
Drosophila carioca Vilela and Bächli 2004:48.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [90].

82. ***Drosophila fluminensis*** Vilela and Bächli
Drosophila fluminensis Vilela and Bächli 2004:54.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [90].

onychophora group
83. ***Drosophila colmenares*** Hunter
Drosophila colmenares Hunter 1988:305.
Type locality: Bogotá, Colombia.
Geographical distribution: **SC** [9].

84. ***Drosophila freilejoni*** Hunter
Drosophila freilejoni Hunter 1979:373.
Type locality: Bogotá, Colombia.
Geographical distribution: **SC** [9].

pallidipennis group
85. ***Drosophila pallidipennis*** Dobzhansky and Pavan
Drosophila pallidipennis Dobzhansky and Pavan 1943:32.
Type locality: Iporanga, São Paulo, Brazil.
Geographical distribution: **BA** [16, 17]; **DF** [20, 21]; **MG** [16, 23, 24]; **MT** [58]; **MS** [17]; **PA** [58]; **PR** [17, 25]; **RJ** [17, 91]; **RS** [17, 30, 31, 92]; **SC** [9, 12, 17, 32, 36, 45]; **SP** [11, 13, 14, 17, 22, 25, 34, 37, 39, 42, 48, 58, 68].

peruensis group
86. ***Drosophila atalaia*** Vilela and Sene
Drosophila atalaia Vilela and Sene 1982:343.
Type locality: Arraial do Cabo, Rio de Janeiro, Brazil.
Geographical distribution: **ES** [93]; **MS** [93]; **RJ** [93].

87. ***Drosophila boraceia*** Vilela and Val
Drosophila boraceia Vilela and Val 2004:46.
Type locality: Salesópolis, São Paulo, Brazil.
Geographical distribution: **SP** [94].

88. ***Drosophila pauliceia*** Ratcov & Vilela
Drosophila pauliceia Ratcov & Vilela 2007:305.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SC**[12]; **SP**[95].

peruviana group
89. ***Drosophila peruviana*** Duda
Drosophila peruviana Duda 1927:204.
Type locality: Urubamba, Peru.
Geographical distribution: **PA** [22, 58, 74].

polychaeta group
90. ***Drosophila polychaeta*** Patterson and Wheeler
Drosophila polychaeta Patterson and Wheeler 1942:102.
Drosophila pattersoni Hardy 1952:470.
Drosophila baole Burla 1954:187.
Drosophila asper Lin and Tseng 1971:69.
Type locality: Galveston, Texas, USA.
Geographical distribution: [localities not mentioned] [22].

repleta group
fasciola subgroup
91. ***Drosophila carolinae*** Vilela
Drosophila carolinae Vilela 1983:5.
Type locality: Salesópolis, São Paulo, Brazil.
Geographical distribution: **PR** [25, 96, 97]; **SC** [12, 98]; **SP** [14, 96, 99].

92. ***Drosophila coroica*** Wasserman
Drosophila coroica Wasserman 1962:125.

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Type locality: Coroico, La Paz, Bolivia.
Geographical distribution: **MS** [99]; **PR** [25, 97, 99]; **SP** [25, 33, 34, 97, 100].

93. ***Drosophila ellisoni*** Vilela
Drosophila ellisoni Vilela 1983:7.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **AM** [34, 96]; **PA** [96]; **SC** [96, 98]; **SP** [97, 100].

94. ***Drosophila fascioloides*** Dobzhansky and Pavan
Drosophila fascioloides Dobzhansky and Pavan 1943:42.
Type locality: Bertioga, São Paulo, Brazil.
Geographical distribution: **PA** [101]; **PR** [25, 96]; **RJ** [97, 100]; **SC** [9, 12, 96, 98]; **SP** [14, 22, 25, 37, 39, 96, 97, 99].

95. ***Drosophila ivai*** Vilela
Drosophila ivai Vilela 1983:14.
Type locality: Juçara, Paraná, Brazil.
Geographical distribution: **MS** [96]; **PR** [96]; **SP** [39].

96. ***Drosophila mapiriensis*** Vilela and Bächli
Drosophila mapiriensis Vilela and Bächli 1990:93.
Type locality: Mapiri, Bolivia.
Geographical distribution: **SC** [12, 98].

97. ***Drosophila moju*** Pavan
Drosophila moju Pavan 1950:19.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **AM** [35]; **PA** [22, 74, 101]; **SC** [9].

98. ***Drosophila mojuoides*** Wasserman
Drosophila mojuoides Wasserman 1962:121.
Type locality: Arima Valley, Trinidad.
Geographical distribution: **PA** [96].

99. ***Drosophila onca*** Dobzhansky and Pavan
Drosophila onca Dobzhansky and Pavan 1943:40.
Type locality: Iporanga, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **ES** [99]; **MG** [24]; **PR** [25, 96, 97, 99, 100]; **RS** [97]; **SC** [9, 12, 32, 45, 96, 98]; **RJ** [99]; **SP** [37, 39, 60, 96, 99, 102].

100. ***Drosophila papei*** Bächli and Vilela
Drosophila papei Bächli and Vilela 2002:235.
Type locality: Aragua, Venezuela.
Geographical distribution: **SC** [12, 98].

101. ***Drosophila pictilis*** Wasserman
Drosophila pictilis Wasserman 1962:125.
Type locality: La Libertad, El Salvador.
Geographical distribution: **SC** [32]; **SP** [39].

102. ***Drosophila pictura*** Wasserman
Drosophila pictura Wasserman 1962:121.
Type locality: Saint George, Trinidad.
Geographical distribution: **SC** [98]; **SP** [39].

103. ***Drosophila querubimae*** Vilela
Drosophila querubimae Vilela 1983:24.
Type locality: Guaratuba, São Paulo, Brazil.
Geographical distribution: **SC** [12, 98]; **SP** [39, 96, 99].

104. ***Drosophila rosinae*** Vilela
Drosophila rosinae Vilela 1983:25.
Type locality: Peruíbe, São Paulo, Brazil.
Geographical distribution: **BA** [16, 96, 97, 99, 100]; **ES** [96]; **MG** [24]; **RJ** [96]; **RN** [57]; **SP** [96, 99].

105. ***Drosophila senei*** Vilela
Drosophila senei Vilela 1983:27.
Type locality: Ibiúna, São Paulo, Brazil.
Geographical distribution: **SC** [9]; **SP** [39, 96].

hydei subgroup
106. ***Drosophila hydei*** Sturtevant
Drosophila hydei Sturtevant 1921:101.
Drosophila marmoria Hutton 1901:91 (suppressed).
Drosophila setosa Dobzhansky and Pavan 1943:46.
Type locality: Lakeland, Florida, USA.
Geographical distribution: **BA** [15, 16, 96, 99]; **DF** [18, 19, 20, 21]; **ES** [96]; **MG** [16, 23, 24, 96, 99]; **MS** [96, 99]; **PB** [96, 99]; **RS** [30, 31, 43]; **SC** [9, 12, 32, 45, 98]; **SP** [34, 37, 96, 99].

mercatorum subgroup
107. ***Drosophila mercatorum*** Patterson and Wheeler
Drosophila mercatorum Patterson and Wheeler 1942:93.
Drosophila carinata Grimshaw 1901:70 (suppressed).
Type locality: Santa Barbara, California, USA.
Geographical distribution: **AM** [35]; **BA** [16, 96, 99]; **DF** [18, 19, 20, 21, 96, 99]; **ES** [96, 99]; **GO** [96]; **MG** [16, 23, 24, 96, 99]; **MS** [47, 96, 99]; **PB** [96, 99]; **PR** [25, 96, 99]; **RJ** [57, 96, 99, 103]; **RS** [27, 28, 29, 30, 31, 43, 67, 72, 92, 99, 102]; **SC** [9, 12, 32, 36, 45, 96, 98, 99]; **SP** [14, 22, 25, 33, 34, 39, 96, 99, 100].

108. ***Drosophila paranaensis*** Barros
Drosophila paranaensis Barros 1950:266.
Drosophila pseudomercatorum Magalhães and Malogolowkin-Cohen 1974:363.
Drosophila paramercatorum Magalhães and Malogolowkin-Cohen 1974:365.
Type locality: Porto Capitão Heitor, Paraná, Brazil.
Geographical distribution: **AM** [96]; **BA** [96, 99]; **DF** [19, 20, 21, 96, 99]; **GO** [96]; **MG** [23, 24]; **MS** [96, 99, 104]; **MT** [96]; **PR** [25, 96, 99]; **SC** [96]; **SP** [25, 33, 34, 39, 96, 99].

mulleri subgroup
109. ***Drosophila aldrichi*** Patterson
Drosophila aldrichi Patterson, in Patterson and Crow 1940:251.
Type locality: Austin, Texas, USA.
Geographical distribution: **AM** [96]; **MS** [96]; **PR** [96, 99].

110. ***Drosophila antonietae*** Tidon-Sklorz and Sene
Drosophila antonietae Tidon-Sklorz and Sene 2001:142.
Type locality: Jundiaí, São Paulo, Brazil.
Geographical distribution: **MS** [105]; **PR** [25, 105, 106]; **RS** [105, 106]; **SP** [25, 34, 105, 106, 107].

111. ***Drosophila borborema*** Vilela and Sene
Drosophila borborema Vilela and Sene 1977:296.
Type locality: Milagres, Bahia, Brazil.
Geographical distribution: **BA** [16, 96, 99, 102, 107, 108, 109]; **MG** [16]; **PE** [96]; **PB** [96, 99]; **RN** [96, 99].

112. ***Drosophila buzzatii*** Patterson and Wheeler
Drosophila buzzatii Patterson and Wheeler 1942:97.
Drosophila tigrina Buzzati-Traverso 1943:44.

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Drosophila versicolor Mather 1955:573.
Type locality: Cordoba, Argentina.
Geographical distribution: **BA** [16, 96, 99, 102]; **MG** [16, 23, 24, 96, 102, 109]; **MS** [57, 96, 99]; **PB** [96, 99]; **PE** [96]; **PR** [25, 96, 99]; **RS** [27, 28, 29, 66, 96, 99, 102]; **SC** [96]; **SP** [25, 34, 38, 107, 109].

113. ***Drosophila gouveai*** Tidon-Sklorz and Sene
Drosophila gouveai Tidon-Sklorz and Sene 2001:144.
Type locality: Altinópolis, São Paulo, Brazil.
Geographical distribution: **BA** [105, 107]; **DF** [20]; **GO** [105]; **MG** [105]; **MS** [105]; **PE** [105]; **SP** [105].

114. ***Drosophila meridionalis*** Wasserman
Drosophila meridionalis Wasserman 1962:88.
Type locality: Angra dos Reis, Rio de Janeiro, Brazil.
Geographical distribution: **BA** [96, 99]; **ES** [96]; **MG** [23, 96]; **MS** [96, 99]; **PB** [96, 99]; **PR** [25, 96, 99]; **RJ** [96, 99, 110]; **RS** [96, 99, 102, 111]; **SC** [9, 12, 96, 98, 99, 102]; **SP** [25, 96, 99, 102, 111].

115. ***Drosophila nigricruria*** Patterson and Mainland
Drosophila nigricruria Patterson and Mainland, in Patterson 1943:136.
Drosophila hoeckeri Brncic 1957:76.
Type locality: El Mediñena, Jalisco, Mexico.
Geographical distribution: **BA** [22, 96]; **DF** [20, 21]; **GO** [22]; **MG** [16, 23, 24, 96]; **MS** [58]; **PR** [25]; **SC** [12, 98]; **SP** [22, 33, 34, 39, 58, 96].

116. ***Drosophila serido*** Vilela and Sene
Drosophila serido Vilela and Sene 1977:295.
Type locality: Milagres, Bahia, Brazil.
Geographical distribution: Due to the complex taxonomic history of the species, and as it initially was mistakenly considered to be *D. antonietae*, *D. gouveai* or *D. seriema*, its geographic distribution was restricted to that mentioned in the review of the cluster *buzzatti* by Manfrin and Sene[112], which includes the states of **BA**; **CE**; **ES**; **MG**; **PB**; **PE**; **PR**; **RJ**; **RN**; **SC**; **SE**; **SP.**

117. ***Drosophila seriema*** Tidon-Sklorz and Sene
Drosophila seriema Tidon-Sklorz and Sene 1995:139.
Type locality: Grão Mogol, Minas Gerais, Brazil.
Geographical distribution: **BA** [107, 109, 113, 114]; **MG** [16, 24, 109, 113, 114].

repleta subgroup
118. ***Drosophila eleonorae*** Tosi, Martins, Vilela and Pereira
Drosophila eleonorae Tosi, Martins, Vilela and Pereira 1990:21.
Type locality: Altamira, Pará, Brazil.
Geographical distribution: **GO** [115]; **MT** [115]; **PA** [115]; **SP** [115].

119. ***Drosophila fulvimacula*** Patterson and Mainland
Drosophila fulvimacula Patterson and Mainland 1944:42.
Type locality: Jalapa, Veracruz, Mexico.
Geographical distribution: **AM** [35, 56]; **PA** [116].

120. ***Drosophila limensis*** Pavan and Patterson
Drosophila limensis Pavan and Patterson, in Pavan and Cunha 1947:26.
Type locality: Lima, Lima, Peru.
Geographical distribution: **SC** [12, 98].

121. ***Drosophila pseudorepleta*** Vilela and Bächli
Drosophila pseudorepleta Vilela and Bächli 1990:95.
Type locality: Hohenau, Paraguay.
Geographical distribution: **MG** [23, 24].

122. ***Drosophila repleta*** Wollaston
Drosophila repleta Wollaston 1858:117.
Drosophila pygmaea Duda 1927:125 (pre-occupied, as *repleta* var. *pygmaea*).
Drosophila punctulata Loew 1862:232.
Drosophila punctata Johnson 1913:202 (lapsus).
Drosophila nigropunctata van der Wulp, 1892:216.
Drosophila melanopalpa Patterson and Wheeler 1942:77.
Drosophila maculiventris van der Wulp 1897:142.
Drosophila brunneipalpa Dobzhansky and Pavan 1943:53.
Drosophila betari Dobzhansky and Pavan 1943:48.
Drosophila austrorepleta Dobzhansky and Pavan 1943:50.
Drosophila adspersa Mik 1886:328.
Type locality: Funchal, Madeira Island.
Geographical distribution: **AM** [35]; **BA** [96, 99]; **DF** [20, 99]; **GO** [96]; **MG** [24]; **MS** [96, 99]; **MT** [47, 96]; **PR** [99]; **RJ** [96]; **SC** [9, 12, 32, 96, 98]; **SP** [37, 39, 96].

123. ***Drosophila zottii*** Vilela
Drosophila zottii Vilela 1983:92.
Type locality: Santa Izabel, São Paulo, Brazil.
Geographical distribution: **MG** [24]; **RS** [28, 29, 30, 31, 43, 96]; **SC** [9, 32, 45, 98]; **SP** [96].

sticta group
124. ***Drosophila sticta*** Wheeler
Drosophila sticta Wheeler 1957:96.
Type locality: Lancetilla, Honduras.
Geographical distribution: **SP** [39, 83].

tripunctata group
i subgroup
125. ***Drosophila mediocris*** Frota-Pessoa
Drosophila mediocris Frota-Pessoa 1954:275.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [117]; **SP** [117].

126. ***Drosophila nappae*** Vilela, Valente and Basso-da-Silva
Drosophila nappae Vilela, Valente and Basso-da-Silva 2004:233.
Type locality: Porto Alegre, Rio Grande do Sul, Brazil.
Geographical distribution: **MG** [53]; **RJ** [53, 117]; **RS** [27, 28, 29, 30, 31, 43, 53, 72]; **SC** [9, 12, 36, 53, 118]; **SP** [14, 22, 39, 53, 70, 117].

127. ***Drosophila neoguaramunu*** Frydenberg
Drosophila neoguaramunu Frydenberg 1956:57.
Type locality: Tingo Maria, Peru.
Geographical distribution: **DF** [20]; **SC** [9 (mentioned as *D. angustibucca*), 12, 118]; **SP** [39].

128. ***Drosophila platitarsus*** Frota-Pessoa
Drosophila platitarsus Frota-Pessoa 1954:276.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [13, 117]; **SC** [9, 45]; **SP** [13, 117].

129. ***Drosophila setula*** Heed and Wheeler
Drosophila setula Heed and Wheeler 1957:18.

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Type locality: Fusagasuga, Colombia.
Geographical distribution: **SC** [9, 12, 98, 118]; **SP** [14, 39].

ii subgroup
130. ***Drosophila bodemannae*** Pipkin and Heed
Drosophila bodemannae Pipkin and Heed 1964:257.
Type locality: Cerro Campana, Panama, Panama.
Geographical distribution: **SC** [9].

131. ***Drosophila cuaso*** Bächli, Vilela and Ratcov
Drosophila cuaso Bächli, Vilela and Ratcov 2000:80.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SC** [12, 32, 118]; **SP** [39, 70, 119].

132. ***Drosophila medioimpressa*** Frota-Pessoa
Drosophila medioimpressa Frota-Pessoa 1954:300.
Type locality: Montes Claros, Minas Gerais, Brazil.
Geographical distribution: **DF** [20]; **MG** [13, 24, 117]; **SC** [9, 12, 118]; **SP** [14, 39].

133. ***Drosophila mediopunctata*** Dobzhansky and Pavan
Drosophila mediopunctata Dobzhansky and Pavan 1943:26.
Type locality: Itanhaém, São Paulo, Brazil.
Geographical distribution: **BA** [15, 16]; **DF** [20, 21]; **MG** [23, 24, 120, 121]; **PR** [25, 117, 123]; **RJ** [120, 122, 124]; **RS** [28, 29, 30, 31, 43, 66, 67, 72, 117, 120, 121, 124]; **SC** [9, 12, 32, 36, 45, 118]; **SP** [13, 14, 25, 34, 37, 39, 57, 68, 70, 117, 120, 124, 125, 126].

134. ***Drosophila mediosignata*** Dobzhansky and Pavan
Drosophila mediosignata Dobzhansky and Pavan 1943:24.
Type locality: Iporanga, São Paulo, Brazil.
Geographical distribution: **RJ** [37]; **RS** [30, 31, 43, 72]; **SC** [9]; **SP** [11, 13, 37, 39, 55, 119].

135. ***Drosophila morena*** Frota-Pessoa
Drosophila morena Frota-Pessoa 1954:283.
Type locality: Feliz, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [117].

136. ***Drosophila paraguayensis*** Duda
Drosophila paraguayensis Duda 1927:185.
Drosophila medionotata Frota-Pessoa 1954:288.
Type locality: Mongaguá, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **MG** [13, 24, 117, 119]; **RJ** [5, 11, 13, 117, 119]; **RS** [29, 30, 31]; **SC** [9, 12, 32, 36, 45, 118]; **SP** [11, 13, 14, 70, 117, 119].

137. ***Drosophila prosimilis*** Duda
Drosophila prosimilis Duda 1927:194 (*nomen dubium* sensu Bächli et al. 2000).
Type locality: Pichis, Peru.
Geographical distribution: **RJ** [37, 117]; **SP** [37].

138. ***Drosophila roehrae*** Pipkin and Heed
Drosophila roehrae Pipkin and Heed 1964:270.
Type locality: Cerro Campana, Panama.
Geographical distribution: **SC** [9, 12, 32, 118]; **SP** [39].

139. ***Drosophila unipunctata*** Patterson and Mainland
Drosophila unipunctata Patterson and Mainland, in Patterson 1943:182.
Type locality: Tamazunchale, San Luis Potosi, Mexico.
Geographical distribution: **MG** [24]; **SC** [9, 118].

iii subgroup
140. ***Drosophila addisoni*** Pavan
Drosophila addisoni Pavan 1950:4.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **AM** [22]; **PA** [13, 22, 74].

141. ***Drosophila bandeirantorum*** Dobzhansky and Pavan
Drosophila bandeirantorum Dobzhansky and Pavan 1943:30.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **BA** [17]; **DF** [17, 20, 21]; **MG** [23, 24]; **PR** [17, 22, 25]; **RJ** [17]; **RS** [22, 27, 28, 29, 30, 31, 72, 92]; **SC** [9, 12, 32, 36, 45, 118]; **SP** [13, 14, 17, 22, 25, 37, 39, 48, 55, 58, 70].

142. ***Drosophila bifilum*** Frota-Pessoa
Drosophila bifilum Frota-Pessoa 1954:284.
Type locality: Mongaguá, São Paulo, Brazil.
Geographical distribution: **DF** [20]; **MG** [13, 24, 117]; **SC** [118]; **SP** [13, 39, 117].

143. ***Drosophila bipunctata*** Patterson and Mainland
Drosophila bipunctata Patterson and Mainland, in Patterson 1943:194.
Type locality: Michoacan, Mexico.
Geographical distribution: **SC** [118].

144. ***Drosophila curvapex*** Frota-Pessoa
Drosophila curvapex Frota-Pessoa 1954:296.
Type locality: Feliz, Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [13, 117]; **SP** [127].

145. ***Drosophila divisa*** Duda
Drosophila divisa Duda 1927:187.
Drosophila diversa Patterson and Wheeler 1949:220 (lapsus).
Type locality: Mapiri, Bolivia.
Geographical distribution: **SC** [9].

146. ***Drosophila fairchildi*** Pipkin and Heed
Drosophila fairchildi Pipkin and Heed 1964:269.
Type locality: El Volcan, Chiriqui, Panama.
Geographical distribution: **SC** [9].

147. ***Drosophila fragilis*** Wheeler
Drosophila fragilis Wheeler 1949:191.
Type locality: Atlixco, Puebla, Mexico.
Geographical distribution: **SC** [9, 45]; **SP** [83].

148. ***Drosophila frotapessoai*** Vilela and Bächli
Drosophila frotapessoai Vilela and Bächli 1990:99.
Type locality: Umahuankilia, Peru.
Geographical distribution: **SP** [39].

149. ***Drosophila mediopicta*** Frota-Pessoa
Drosophila mediopicta Frota-Pessoa 1954:290.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **MG** [24]; **RJ** [117]; **RS** [29, 30, 31, 43, 72]; **SC** [9, 12, 32, 36, 118]; **SP** [13, 14, 39, 70, 117].

150. ***Drosophila mediopictoides*** Heed and Wheeler
Drosophila mediopictoides Heed and Wheeler 1957:24.
Type locality: Turrialba, Costa Rica.
Geographical distribution: **SC** [9].

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151. ***Drosophila mediostriata*** Duda
Drosophila mediostriata Duda 1925:223.
Drosophila crocina Patterson and Mainland 1944:34.
Drosophila campestris Burla, in Pavan 1950:9.
Type locality: Suiza, Turrialba, Costa Rica.
Geographical distribution: **AC** [22]; **AM** [22]; **BA** [17, 22, 74]; **DF** [18, 20, 21]; **GO** [74]; **MA** [22]; **MG** [23, 24]; **MT** [22, 58]; **PR** [25]; **RJ** [5]; **RR** [22]; **RS** [30, 31, 43]; **SC** [9, 12, 32, 45, 118]; **SP** [14, 17, 22, 25, 39, 55, 58, 68, 70, 74, 128]; **TO** [22].

152. ***Drosophila mesostigma*** Frota-Pessoa
Drosophila mesostigma Frota-Pessoa 1954:269.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **DF** [21]; **MG** [23]; **PA** [13, 117]; **PI** [13, 117]; **SC** [9]; **SP** [39].

153. ***Drosophila nigricincta*** Frota-Pessoa
Drosophila nigricincta Frota-Pessoa 1954:289.
Type locality: Cantareira, São Paulo, Brazil
Geographical distribution: **SP** [13, 39, 117].

154. ***Drosophila paramediostriata*** Townsend and Wheeler
Drosophila paramediostriata Townsend and Wheeler 1955:62.
Type locality: Porto Rico.
Geographical distribution: **DF** [20, 21]; **SC** [12, 118]; **SP** [34, 38, 70].

155. ***Drosophila trapeza*** Heed and Wheeler
Drosophila trapeza Heed and Wheeler 1957:25.
Drosophila mirassolensis Mourão and Gallo 1967:118.
Type locality: La Lola, Costa Rica.
Geographical distribution: **MG** [24]; **SC** [32, 118]; **SP** [39, 68, 122].

156. ***Drosophila triangula*** Wheeler
Drosophila triangula Wheeler 1949:192.
Type locality: Morelia, Michoacán, Mexico.
Geographical distribution: **SC** [9].

157. ***Drosophila trifilum*** Frota-Pessoa
Drosophila trifilum Frota-Pessoa 1954:292.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **RJ** [117]; **SC** [12, 118]; **SP** [13, 39, 117].

iv subgroup
158. ***Drosophila albescens*** Frota-Pessoa
Drosophila albescens Frota-Pessoa 1954:281.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [13, 117].

159. ***Drosophila albicans*** Frota-Pessoa
Drosophila albicans Frota-Pessoa 1954:282.
Type locality: Pirassununga, São Paulo, Brazil.
Geographical distribution: **SP** [13, 117].

160. ***Drosophila albirostris*** Sturtevant
Drosophila albirostris Sturtevant 1921:78.
Type locality: Panamas.
Geographical distribution: **MG** [23]; **SP** [83].

161. ***Drosophila mediovittata*** Frota-Pessoa
Drosophila mediovittata Frota-Pessoa 1954:280.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [13, 117].

162. ***Drosophila metzii*** Sturtevant
Drosophila metzii Sturtevant 1921:78.
Type locality: Herradura, Cuba.
Geographical distribution: **SP** [39].

163. ***Drosophila pruinifacies*** Frota-Pessoa
Drosophila pruinifacies Frota-Pessoa 1954:292.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **SP** [117].

164. ***Drosophila spinatermina*** Heed and Wheeler
Drosophila spinatermina Heed and Wheeler 1957:30.
Type locality: Port of Spain, Trinidad.
Geographical distribution: **SP** [39].

165. ***Drosophila tripunctata*** Loew
Drosophila tripunctata Loew 1862:231.
Drosophila modesta Sturtevant 1916:338.
Type locality: Columbia, USA.
Geographical distribution: **SC** [9, 118].

166. ***Drosophila tristriata*** Heed and Wheeler
Drosophila tristriata Heed and Wheeler 1957:31.
Type locality: Port of Spain, Trinidad.
Geographical distribution: **SC** [9].

virilis group
virilis subgroup
167. ***Drosophila virilis*** Sturtevant, 1916
Drosophila virilis Sturtevant 1916:330.
Type locality: New York, New York, USA.
Geographical distribution: **MG** [23]; **SC** [12, 32].

Not assigned to group
168. ***Drosophila impudica*** Duda
Drosophila impudica Duda 1927:196.
Drosophila para Pavan and Burla, in Pavan 1950:22.
Type locality: Urubamba, Peru.
Geographical distribution: **BA** [16, 17]; **DF** [20]; **MS** [17]; **PA** [11, 13, 22, 56, 74]; **SP** [17].

169. ***Drosophila tuchaua*** Pavan
Drosophila tuchaua Pavan 1950:26.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **AM** [35]; **PA** [13, 74].

Phloridosa subgenus
170. ***Drosophila denieri*** Blanchard
Drosophila denieri Blanchard 1938:362.
Type locality: Isla de Oro, Formosa, Argentina.
Geographical distribution: **RJ** [128, 129]; **RS** [50]; **SC** [50].

171. ***Drosophila lutzii*** Sturtevant
Drosophila lutzii Sturtevant 1916:340.
Drosophila floricola Sturtevant 1942:42.
Type locality: Havana, Cuba.
Geographical distribution: **RS** [50]; **SC** [50].

Siphlodora subgenus
172. ***Drosophila flexa*** Loew

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Drosophila flexa Loew 1866:182.
Drosophila subsigmoides Patterson and Mainland 1944:26.
Type locality: Gunglach, Cuba.
Geographical distribution: **GO** [130]; **RJ** [130]; **RN** [130]; **SC** [12, 32, 131]; **SP** [39, 130].

Sophophora subgenus
melanogaster group
ananassae subgroup
173. ***Drosophila ananassae*** Doleschall
Drosophila ananassae Doleschall 1858:128.
Drosophila imparata Walker 1859:126.
Drosophila similis Lamb 1914:347 (pre-occupied).
Drosophila caribea Sturtevant 1916:335.
Drosophila errans Malloch 1933:21.
Type locality: Ambon Island, Indonesia.
Geographical distribution: **AM** [35]; **BA** [15, 17]; **MG** [23]; **PR** [22]; **RJ** [49, 132]; **RS** [28, 29]; **SC** [12, 32, 133]; **SP** [22, 34, 68].

174. ***Drosophila malerkotliana*** Parshad and Paika
Drosophila malerkotliana Parshad and Paika 1964:235.
Type locality: India.
Geographical distribution: **AM** [35, 61, 62]; **BA** [16, 17]; **DF** [17, 19, 20, 21]; **MG** [16, 17, 23, 24]; **MS** [17]; **MT** [47, 53]; **PA** [35, 53]; **PB** [17]; **PR** [17, 25]; **RJ** [17]; **RN** [17]; **RS** [134]; **SC** [9, 12, 32, 36, 45, 53]; **SP** [17, 25, 33, 34, 39, 42].

melanogaster subgroup
175. ***Drosophila melanogaster*** Meigen
Drosophila melanogaster Meigen 1830:85.
Drosophila fasciata Meigen 1830:84.
Drosophila nigriventris Macquart 1843:259(=416).
Drosophila approximata Zetterstedt 1847:2557.
Drosophila immatura Walker 1849:1108.
Drosophila ampelophila Loew 1862:231.
Drosophila uvarum Rondani 1875:145.
Drosophila ampelophaga Howard 1900:604 (lapsus).
Drosophila pilosula Becker 1908:156.
Drosophila emulata Ray-Chaudhuri and Mukherjee 1941:216.
Drosophila melanocephala de Meijere 1946:16 (lapsus).
Type locality: Germany and Austria.
Geographical distribution: **BA** [15]; **DF** [17, 19, 20, 21]; **MA** [135]; **MG** [17, 23, 43, 135]; **PI** [135]; **PR** [17, 135]; **RJ** [17]; **RS** [28, 43, 135]; **SC** [9, 12, 32, 135]; **SP** [14, 17, 34, 39, 43, 135].

176. ***Drosophila simulans*** Sturtevant
Drosophila simulans Sturtevant 1919:153.
Type locality: Lakeland, Florida, USA.
Geographical distribution: **AM** [35, 62]; **BA** [15, 16, 17]; **DF** [17, 18, 19, 20, 21]; **ES** [17]; **MG** [16, 17, 23, 24, 56]; **MT** [47, 53, 58]; **MS** [17, 47]; **PA** [53, 58]; **PB** [17]; **PR** [17, 25]; **RJ** [17]; **RN** [17]; **RS** [17, 27, 28, 29, 43, 66, 67, 72, 92]; **SC** [9, 12, 17, 32, 36, 45, 53]; **SP** [14, 17, 25, 33, 34, 39, 43, 55, 58, 60, 68].

montium subgroup
177. ***Drosophila kikkawai*** Burla
Drosophila kikkawai Burla 1954:47.
Drosophila montium de Meijere 1916:205 sensu Freire-Maia and Pavan 1949 (key).
Type locality: Brazil.
Geographical distribution: **DF** [17, 20]; **MS** [17]; **PR** [22, 41]; **RJ** [41]; **RS** [30, 31, 43, 67, 136]; **SC** [9, 12, 32, 45, 137]; **SP** [22, 41, 68].

saltans group
cordata subgroup
178. ***Drosophila neocordata*** Magalhães
Drosophila neocordata Magalhães 1956:275.
Type locality: Montes Claros, Minas Gerais, Brazil.
Geographical distribution: **BA** [17]; **ES** [17]; **MG** [13, 138, 139]; **MS** [17]; **PR** [17]; **RJ** [17]; **SP** [17].

elliptica subgroup
179. ***Drosophila neoelliptica*** Pavan and Magalhães
Drosophila neoelliptica Pavan and Magalhães, in Pavan 1950:13.
Type locality: Jaguariaiva, Paraná, Brazil.
Geographical distribution: **GO** [13, 74, 139]; **PR** [74, 139]; **RJ** [139]; **SC** [9, 12, 36]; **SP** [14, 39, 139].

180. ***Drosophila neosaltans*** Pavan and Magalhães
Drosophila neosaltans Pavan and Magalhães, in Pavan 1950:16.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **SC** [9, 12, 32, 133]; **SP** [13, 14, 17, 39, 74, 139].

parasaltans subgroup
181. ***Drosophila parasaltans*** Magalhães
Drosophila parasaltans Magalhães 1956:276.
Type locality: Rio Negro, Amazonas, Brazil.
Geographical distribution: **AM** [138, 139].

182. ***Drosophila subsaltans*** Magalhães
Drosophila subsaltans Magalhães 1956:277.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **PA** [138, 139].

saltans subgroup
183. ***Drosophila austrosaltans*** Spassky
Drosophila austrosaltans Spassky 1957:57.
Type locality: Pirassununga, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **MA** [139]; **MG** [24]; **MS** [17]; **SP** [34, 39, 42, 139, 140].

184. ***Drosophila prosaltans*** Duda
Drosophila prosaltans Duda 1927:164.
Type locality: Hohenau, Paraguay.
Geographical distribution: **AM** [35, 139]; **BA** [16, 17, 22, 139]; **MA** [22, 139]; **MG** [17, 24]; **MS** [17]; **PA** [22, 139]; **PR** [25]; **RJ** [139]; **RS** [17, 30, 31, 43, 139]; **SC** [9, 12, 17, 32]; **SP** [14, 17, 22, 25, 34, 42, 39, 55, 139]; **TO** [139].

185. ***Drosophila pseudosaltans*** Magalhães
Drosophila pseudosaltans Magalhães 1956:273.
Type locality: Cantareira, São Paulo, Brazil.
Geographical distribution: **SP** [138, 139].

186. ***Drosophila saltans*** Sturtevant
Drosophila saltans Sturtevant 1916:328.
Drosophila sellata Sturtevant 1942:39.
Type locality: Guantanamo, Cuba.
Geographical distribution: **MT** [53]; **PA** [53]; **SC** [9, 12, 45, 53]; **SE** [43].

sturtevanti subgroup
187. ***Drosophila magalhaesi*** Mourão and Bicudo
Drosophila magalhaesi Mourão and Bicudo 1967:127.
Type locality: Rio Grande do Sul, Brazil.
Geographical distribution: **RS** [141].

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188. ***Drosophila pulchella*** Sturtevant
Drosophila pulchella Sturtevant 1916:327.
Drosophila bellula Williston 1896:410 (pre-occupied).
Type locality: Saint Vicente, West Indians.
Geographical distribution: **RS** [30, 31]; **SC** [133].

189. ***Drosophila sturtevanti*** Duda
Drosophila sturtevanti Duda 1927:167.
Drosophila earlei Sturtevant 1916:329.
Drosophila pilifacies Malloch 1926:29.
Drosophila biopaca Sturtevant 1942:37.
Type locality: Mapiri, Bolivia.
Geographical distribution: **AC** [22, 139]; **AM** [22, 35, 56, 139]; **BA** [15, 16, 17, 22, 139]; **DF** [17, 18, 19, 20, 21]; **ES** [17]; **GO** [22, 139]; **MA** [22, 139]; **MG** [16, 17, 23, 24, 56, 142]; **MT** [22, 47, 53, 58]; **MS** [17]; **PA** [22, 53, 56, 58, 139, 143]; **PB** [17]; **PR** [17, 25]; **RJ** [17, 22, 37, 139, 143]; **RN** [17]; **RR** [22]; **RS** [17, 43, 142]; **SC** [9, 12, 17, 32, 36, 45, 53]; **SP** [14, 17, 22, 25, 33, 34, 37, 39, 42, 58, 60, 68, 139, 141, 142, 143].

willistoni group
alagitans subgroup
190. ***Drosophila alagitans*** Patterson and Mainland
Drosophila alagitans Patterson and Mainland, in Patterson 1943:194.
Type locality: Laguna Pátzcuaro, Michoacan, Mexico.
Geographical distribution: **SC** [9].

bocainensis subgroup
191. ***Drosophila bocainensis*** Pavan and Cunha
Drosophila bocainensis Pavan and Cunha 1947:18.
Type locality: Campos de Bocaina, São Paulo, Brazil.
Geographical distribution: **DF** [20, 21]; **MT** [58]; **PR** [41, 144]; **RS** [29, 28, 30, 31, 72]; **SC** [9, 12, 133]; **SP** [13, 14, 39, 41, 55, 58, 144].

192. ***Drosophila bocainoides*** Carson
Drosophila bocainoides Carson 1954:150.
Type locality: Mongaguá, São Paulo, Brazil.
Geographical distribution: **MG** [24]; **RJ** [145]; **SC** [9, 12, 133]; **SP** [13, 14, 39, 145].

193. ***Drosophila capricorni*** Dobzhansky and Pavan
Drosophila capricorni Dobzhansky and Pavan 1943:14.
Type locality: Mongaguá, São Paulo, Brazil.
Geographical distribution: **BA** [16, 22]; **ES** [17]; **MA** [22]; **MG** [17, 23, 24]; **MT** [22, 58]; **PA** [58]; **PR** [43]; **RJ** [17, 22]; **RS** [17, 26, 28, 43]; **SC** [9, 12, 32, 36, 45]; **SP** [13, 14, 17, 22, 37, 39, 55, 56, 58, 144].

194. ***Drosophila changuinolae*** Wheeler and Magalhães
Drosophila changuinolae Wheeler and Magalhães 1962:169.
Type locality: Changuinola, Panama.
Geographical distribution: **SP** [39].

195. ***Drosophila fumipennis*** Duda
Drosophila fumipennis Duda 1925:220.
Type locality: Suiza, Turrialba, Costa Rica.
Geographical distribution: **AC** [22]; **AM** [22, 35]; **BA** [15, 22]; **DF** [17, 20]; **ES** [17]; **MA** [22]; **MG** [23]; **MT** [22, 58]; **PA** [22, 56, 58]; **PR** [22]; **RJ** [5, 22, 37]; **RS** [27, 28, 30, 31]; **SC** [9, 12, 32, 36, 45]; **SP** [14, 17, 22, 25, 37, 39, 48, 55, 58, 144].

196. ***Drosophila mangabeirai*** Malogolowkin
Drosophila mangabeirai Malogolowkin 1951:432.
Type locality: Campina, Bahia, Brazil.
Geographical distribution: **BA** [15].

197. ***Drosophila nebulosa*** Sturtevant
Drosophila nebulosa Sturtevant 1916:327.
Drosophila limbata Williston 1896:414 (pre-occupied).
Type locality: Saint Vicente, West Indians.
Geographical distribution: **AC** [22]; **AM** [17, 22, 35, 61, 62]; **BA** [15, 16, 17, 22]; **DF** [17, 18, 19, 20, 21, 43]; **ES** [17]; **GO** [22, 71]; **MA** [22]; **MG** [16, 17, 23, 24, 56]; **MT** [22, 47, 58]; **MS** [17, 47]; **PA** [22, 58]; **PB** [17]; **PR** [17, 22, 58]; **RJ** [17, 22]; **RN** [17]; **RO** [22]; **RR** [22]; **RS** [17, 22, 26, 27, 28, 29, 30, 31, 43, 72]; **SC** [9, 12, 32, 36, 45]; **SP** [14, 17, 22, 33, 34, 39, 42, 43, 56, 58, 68, 144]; **TO** [22].

198. ***Drosophila parabocainensis*** Carson
Drosophila parabocainensis Carson 1954:149.
Type locality: Feliz, Rio Grande do Sul, Brazil.
Geographical distribution: **MG** [23, 24, 145]; **RS** [13, 145, 146]; **SP** [14, 145].

willistoni subgroup
199. ***Drosophila equinoxialis*** Dobzhansky
Drosophila equinoxialis Dobzhansky 1946:209.
Type locality: Teffé, Amazonas, Brazil.
Geographical distribution: **AM** [13, 48, 61, 144, 147]; **GO** [43]; **MT** [53]; **PA** [53].

200. ***Drosophila paulistorum*** Dobzhansky and Pavan
Drosophila paulistorum Dobzhansky and Pavan, in Burla et al. 1949:301.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **AM** [61, 147, 148, 149, 150]; **BA** [149, 151]; **CE** [149, 151]; **GO** [43, 149]; **MA** [149]; **MG** [24, 148, 149, 150]; **MT** [53]; **PA** [43, 53, 147, 149, 150, 151]; **PE** [149]; **RJ** [148, 149, 150]; **RS** [43, 147, 152, 153]; **SC** [12, 32, 147]; **SP** [14, 37, 39, 55, 144, 147, 148, 149].

201. ***Drosophila tropicalis*** Burla and Cunha
Drosophila tropicalis Burla and Cunha, in Burla et al. 1949:302.
Type locality: Palmas, Tocantins, Brazil.
Geographical distribution: **AC** [144]; **AM** [61]; **GO** [20]; **MT** [53]; **PA** [43, 53].

202. ***Drosophila willistoni*** Sturtevant
Drosophila willistoni Sturtevant 1916:327.
Drosophila pallida Williston 1896:415 (pre-occupied).
Drosophila paulista Dobzhansky and Pavan 1943:10.
Type locality: Saint Vicente, West Indians.
Geographical distribution: **AM** [61, 154, 155, 156]; **BA** [15, 144, 147, 155, 156]; **DF** [20]; **MG** [24, 147, 155]; **MT** [53]; **PA** [53, 147, 154, 155]; **PR** [58, 144, 147, 155]; **RJ** [37, 154, 157, 158, 159, 160, 161]; **RS** [26, 27, 28, 29, 43, 66, 67, 72, 92, 147, 152, 153, 155, 156, 161, 162, 163, 164]; **SC** [12, 32, 36, 53, 147, 155, 165]; **SP** [14, 37, 39, 55, 60, 144, 147, 154, 155, 161, 166].

Not assigned to subgenera
203. ***Drosophila atra*** Walker
Drosophila atra Walker 1853:412.
Type locality: Brazil.
Geographical distribution: [localities not mentioned] [3, 167].

204. ***Drosophila tarsalis*** Walker
Drosophila tarsalis Walker 1853:412.
Type locality: Brazil.
Geographical distribution: [localities not mentioned] [167].

Hirtodrosophila genus

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hirticornis group
205. ***Hirtodrosophila gilva*** (Burla)
Drosophila gilva Burla 1956:263.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168].

206. ***Hirtodrosophila mendeli*** (Mourão, Gallo and Bicudo)
Drosophila mendeli Mourão, Gallo and Bicudo 1965:578.
Type locality: Mirassol, São Paulo, Brazil.
Geographical distribution: **SP** [169].

207. ***Hirtodrosophila morgani*** (Mourão, Gallo and Bicudo)
Drosophila morgani Mourão, Gallo and Bicudo 1967:160.
Type locality: Mirassol, São Paulo, Brazil.
Geographical distribution: **SP** [169, 170].

208. ***Hirtodrosophila subgilva*** (Burla)
Drosophila subgilva Burla 1956:263.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168].

thoracis group
209. ***Hirtodrosophila clypitata*** (Grimaldi)
Drosophila clypitata Grimaldi 1987:149.
Zygothrica clypeata Burla 1956:251.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **RJ** [168].

210. ***Hirtodrosophila pleurostrigata*** (Burla)
Zygothrica pleurostrigata Burla 1956:250.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **RJ** [168]; **SP** [168].

211. ***Hirtodrosophila thoracis*** (Williston)
Drosophila thoracis Williston 1896:411.
Type locality: not found
Geographical distribution: **RJ** [168].

212. ***Hirtodrosophila strigocula*** (Burla)
Zygothrica strigocula Burla 1956:250.
Type locality: Bahia, Brazil.
Geographical distribution: **BA** [168].

magnarcus group
213. ***Hirtodrosophila levigata*** (Burla)
Drosophila levigata Burla 1956:261.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **RJ** [170]; **SP** [168, 170].

214. ***Hirtodrosophila magnarcus*** (Frota-Pessoa)
Drosophila magnarcus Frota-Pessoa 1951:407.
Drosophila caxiensis Cordeiro 1952:304.
Drosophila paralevigata Burla 1956:261.
Type locality: Mogi das Cruzes, São Paulo, Brazil.
Geographical distribution: **RJ** [170]; **RS** [170, 171]; **SP** [168, 170, 172].

Not assigned to group
215. ***Hirtodrosophila gavea*** Vilela and Bächli
Hirtodrosophila gavea Vilela and Bächli 2005:150.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [170].

216. ***Hirtodrosophila jordanensis*** (Frota-Pessoa)
Drosophila jordanensis Frota-Pessoa 1945:473.
Type locality: Campos de Jordão, São Paulo, Brazil.
Geographical distribution: **SP** [170, 173].

217. ***Hirtodrosophila minuscula*** Vilela and Bächli
Hirtodrosophila minuscula Vilela and Bächli 2005:154.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [170].

218. ***Hirtodrosophila pictiventris*** (Duda)
Drosophila pictiventris Duda 1925:211.
Drosophila pictiventria Patterson and Wheeler 1949:225 (lapsus).
Type locality: Costa Rica.
Geographical distribution: **PA** [170].

219. ***Hirtodrosophila ramulosa*** (Burla)
Drosophila ramulosa Burla 1956:266.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168, 170].

220. ***Hirtodrosophila subflavohalterata*** (Burla)
Drosophila subflavohalterata Burla 1956:264.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168, 170].

Mycodrosophila genus
221. ***Mycodrosophila brunnescens*** Wheeler and Takada
Mycodrosophila brunnescens Wheeler and Takada 1963:399.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **PA** [174].

222. ***Mycodrosophila elegans*** Wheeler and Takada
Mycodrosophila elegans Wheeler and Takada 1963:398.
Type locality: Canal Zone, Panama.
Geographical distribution: **PA** [174].

223. ***Mycodrosophila projectans*** (Sturtevant)
Drosophila projectans Sturtevant 1916:342.
Type locality: Saint Domingos, West Indians.
Geographical distribution: [localities not mentioned] [2, 3, 174].

Neotanygastrella genus
224. ***Neotanygastrella chymomyzoides*** Duda
Neotanygastrella chymomyzoides Duda 1927:71.
Type locality: Mapiri, Bolivia.
Geographical distribution: **PA** [1].

225. ***Neotanygastrella tricoloripes*** Duda
Neotanygastrella tricoloripes Duda 1925:224.
Bunostoma braziliensis Frota-Pessoa 1946:176.
Type locality: Suiza, Turrialba, Costa Rica.
Geographical distribution: **PA** [1]; **RJ** [175].

Scaptodrosophila genus
latifasciaeformis group
226. ***Scaptodrosophila latifasciaeformis*** (Duda)
Drosophila latifasciaeformis Duda 1940:22.
Drosophila finitima gracilipes Duda 1940:39.
Drosophila mirim Dobzhansky and Pavan 1943:62.
Drosophila baeomyia Wheeler 1949:145.

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Type locality: Katona, Uganda.
Geographical distribution: **AC** [22]; **AM** [22, 35, 61, 62]; **BA** [15, 16, 17, 22]; **DF** [17, 18, 19, 20, 21]; **GO** [22, 71]; **MA** [22]; **MG** [16, 17, 23]; **MS** [17]; **MT** [22, 47, 58]; **PA** [22, 56, 58]; **PB** [17]; **PR** [17]; **RJ** [17, 22]; **RN** [17]; **RO** [22]; **SC** [9, 12, 17, 32, 45]; **SP** [13, 14, 17, 22, 25, 37, 42, 58, 68].

rufifrons group
227. ***Scaptodrosophila lebanonensis*** (Wheeler)
Drosophila lebanonensis Wheeler 1949:143.
Drosophila pattersoni Pipkin 1956:251.
Drosophila stonei Pipkin 1956:254.
Drosophila galloi Lourenço and Mourão 1992:575.
Type locality: Beirut, Lebanon.
Geographical distribution: **RS** [176, 177].

Scaptomyza genus
Mesoscaptomyza subgenus
vittata group
228. ***Scaptomyza fuscinervis*** Malloch
Scaptomyza fuscinervis Malloch 1924:11.
Type locality: Alto Itatiaia, São Paulo, Brazil.
Geographical distribution: **RJ** [7]; **SP** [178].

229. ***Scaptomyza nigripalpis*** Malloch
Scaptomyza nigripalpis Malloch 1924:11.
Type locality: Alto Itatiaia, São Paulo, Brazil.
Geographical distribution: **MG** [7]; **RJ** [7]; **SP** [178].

Not assigned to group
230. ***Scaptomyza pleurolineata*** Wheeler and Takada
Scaptomyza pleurolineata Wheeler and Takada 1966:70.
Type locality: Popayan, Colombia.
Geographical distribution: **SP** [7, 179].

Zaprionus genus
Zaprionus subgenus
armatus group
vittiger subgroup
231. ***Zaprionus indianus*** Gupta
Zaprionus indianus Gupta 1970:63 (como *Z. indiana* – lapsus).
Zaprionus inermis Seguy 1938:343 (preocuped).
Zaprionus paravittiger Godbole and Vaidya 1972:135.
Zaprionus collarti Tsacas 1980:147.
Type locality: India.
Geographical distribution: **BA** [180]; **DF** [18, 19, 20, 21, 181]; **MA** [181]; **MG** [182]; **MT** [180]; **PA** [53, 180, 181]; **RJ** [180]; **RO** [181]; **RS** [30, 31, 67]; **SC** [9, 12, 32, 45, 53]; **SP** [181, 183].

Zygothrica genus
atriangula group
232. ***Zygothrica atriangula*** Duda
Zygothrica atriangula Duda, 1927:57.
Type locality: Pichis Peru.
Geographical distribution: **PA** [1, 168]; **RJ** [168]; **SP** [14, 168].

233. ***Zygothrica parapoeyi*** Burla
Zygothrica parapoeyi Burla 1956:242.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

234. ***Zygothrica paraptilialis*** Burla
Zygothrica paraptilialis Burla 1956:246.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [168].

235. ***Zygothrica poeyi*** (Sturtevant)
Drosophila poeyi Sturtevant 1921:76.
Type locality: Havana, Cuba.
Geographical distribution: **RJ** [168]; **SC** [184].

236. ***Zygothrica subcandens*** Burla
Zygothrica subcandens Burla 1956:245.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

237. ***Zygothrica virgatinigra*** Burla
Zygothrica virgatinigra Burla 1956:252.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168]; **SP** [14].

bilineata group
238. ***Zygothrica bilineata*** (Williston)
Drosophila bilineata Williston 1896:409.
Zygothrica gemma Burla 1956:249.
Type locality: Saint Vicente, West Indians.
Geographical distribution: **MT** [185]; **PA** [185]; **PR** [185]; **RJ** [168, 185]; **RO** [185]; **RS** [185]; **SC** [12, 184]; **SP** [14].

candens group
239. ***Zygothrica candens*** Burla
Zygothrica candens Burla 1956:244.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

dispar group
aldrichi subgroup
240. ***Zygothrica aldrichi*** Sturtevant
Zygothrica aldrichi Sturtevant 1920:157.
Type locality: Panama.
Geographical distribution: **PA** [1].

241. ***Zygothrica joeyesco*** Grimaldi
Zygothrica joeyesco Grimaldi 1987:234.
Type locality: Raleigh, Suriname.
Geographical distribution: **RO** [186].

242. ***Zygothrica mediovitta*** Grimaldi
Zygothrica mediovitta Grimaldi 1987:238.
Type locality: Mizaruni-Potaro, English Guiana.
Geographical distribution: **PA** [186].

243. ***Zygothrica microeristes*** Grimaldi
Zygothrica microeristes Grimaldi 1987:218.
Type locality: Belém, Pará, Brazil.
Geographical distribution: **AM** [186]; **ES** [186]; **PA** [186]; **MT** [186]; **RO** [186].

244. ***Zygothrica neoaldrichi*** Burla
Zygothrica neoaldrichi Burla 1956:222.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168, 186]; **SP** [14].

245. ***Zygothrica nigropleura*** Grimaldi

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Zygothrica nigropleura Grimaldi 1987:230.
Type locality: Salesópolis, São Paulo, Brazil.
Geographical distribution: **SC** [184]; **SP** [186].

246. ***Zygothrica paraldrichi*** Burla
Zygothrica paraldrichi Burla 1956:223.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **AM** [186]; **PA** [186]; **RJ** [168, 186]; **RO** [186]; **SP** [14].

247. ***Zygothrica pilipes*** Hendel
Zygothrica pilipes Hendel 1936:93.
Type locality: Santarém, Pará, Brazil.
Geographical distribution: **AM** [186]; **AP** [186]; **PA** [1, 186]; **RO** [186].

248. ***Zygothrica radialis*** Grimaldi
Zygothrica radialis Grimaldi 1987:240.
Type locality: Mizaruni-Potaro, English Guiana.
Geographical distribution: **PA** [186].

249. ***Zygothrica somatia*** Grimaldi
Zygothrica somatia Grimaldi 1987:236.
Type locality: Monte Dourado, Pará, Brazil.
Geographical distribution: **PA** [186].

250. ***Zygothrica zygia*** Grimaldi
Zygothrica zygia Grimaldi 1987:209.
Type locality: Tabaquite, Trinidad.
Geographical distribution: **AM** [186]; **PA** [186]; **RO** [186].

caudata subgroup
251. ***Zygothrica caudata*** (Hendel)
Drosophilura caudata Hendel 1913:389.
Type locality: Santarém, Pará, Brazil.
Geographical distribution: **PA** [1, 186]; **SP** [14, 168, 186].

252. ***Zygothrica laticeps*** Burla
Zygothrica laticeps Burla 1954:246.
Type locality: Cantareira, São Paulo, Brazil.
Geographical distribution: **RJ** [168]; **SP** [168, 186].

dispar subgroup
253. ***Zygothrica dispar*** (Wiedemann)
Achias dispar Wiedemann 1830:556.
Type locality: Brazil.
Geographical distribution: **ES** [186]; **PA** [1]; **PI** [186]; **RJ** [49, 144, 168, 186, 187]; **SC** [12, 32, 184]; **SP** [14, 48, 83, 168, 186].

254. ***Zygothrica prodispar*** Duda
Zygothrica prodispar Duda 1925:189.
Type locality: Pinipini, Peru.
Geographical distribution: **BA** [186]; **MT** [186]; **PA** [186]; **PI** [186]; **RJ** [49, 168, 186]; **SC** [12, 32, 184, 186]; **SP** [14, 168, 186].

fuscina group
255. ***Zygothrica fuscina*** Burla
Zygothrica fuscina Burla 1956:257.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

256. ***Zygothrica venustipoeyi*** Burla
Zygothrica venustipoeyi Burla 1956:238.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [168].

hypandriata group
257. ***Zygothrica hypandriata*** Burla
Zygothrica hypandriata Burla 1956:246.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **RJ** [168]; **SC** [184]; **SP** [14, 168].

258. ***Zygothrica lanceolata*** Burla
Zygothrica lanceolata Burla 1956:246.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SC** [184]; **SP** [14, 168].

259. ***Zygothrica spiculirostris*** Burla
Zygothrica spiculirostris Burla 1956:255.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

orbitalis group
260. ***Zygothrica orbitalis*** (Sturtevant)
Drosophila orbitalis Sturtevant 1916:336.
Zygothrica nitidifrons Duda 1927:55.
Drosophila ochracella Hendel 1936:98.
Zygothrica parilis Burla 1956:220.
Type locality: Ilha Taboga, Panama.
Geographical distribution: **PA** [1]; **RJ** [168]; **SC** [12, 32, 184]; **SP** [14, 168].

virgatalba group
261. ***Zygothrica virgatalba*** Burla
Zygothrica virgatalba Burla 1956:252.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168]; **SP** [14].

vittimaculosa group
262. ***Zygothrica sectipoeyi*** Burla
Zygothrica sectipoeyi Burla 1956:236.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168]; **SP** [14].

263. ***Zygothrica vitticlara*** Burla
Zygothrica vitticlara Burla 1956:226.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168].

264. ***Zygothrica vittimaculosa*** Burla
Zygothrica vittimaculosa Burla 1956:227.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **RS** [43]; **SC** [12, 184]; **SP** [14, 168].

265. ***Zygothrica vittinubila*** Burla
Zygothrica vittinubila Burla 1956:225.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ**: [168]; **SP** [14, 83, 168].

266. ***Zygothrica vittipunctata*** Burla
Zygothrica vittipunctata Burla 1956:230.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

267. ***Zygothrica zygopoeyi*** Burla
Zygothrica zygopoeyi Burla 1956:236.

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Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168]; **SP** [14].

vittatifrons group
268. ***Zygothrica vittatifrons*** (Williston)
Drosophila vittatifrons Williston 1896:408.
Type locality: not found
Geographical distribution: [localities not mentioned] [2].

269. ***Zygothrica vittimarginata*** Burla
Zygothrica vittimarginata Burla 1956:229.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [168].

Not assigned to group
270. ***Zygothrica apopoeyi*** Burla
Zygothrica apopoeyi Burla 1956:240.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SC** [184]; **SP** [14, 168].

271. ***Zygothrica clavipoeyi*** Burla
Zygothrica clavipoeyi Burla 1956:238.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [168].

272. ***Zygothrica festiva*** Burla
Zygothrica festiva Burla 1956:256.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168]; **SP** [14].

273. ***Zygothrica gracilipoeyi*** Burla
Zygothrica gracilipoeyi Burla 1956:240.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14].

274. ***Zygothrica laevifrons*** Duda
Zygothrica laevifrons Duda 1927:56.
Type locality: Pichis, Peru.
Geographical distribution: **PA** [1].

275. ***Zygothrica laeviventris*** Duda
Zygothrica laeviventris Duda 1927:62.
Type locality: P. Novo, Brazil.
Geographical distribution: [localities not mentioned] [3, 5].

276. ***Zygothrica mesopoeyi*** Burla
Zygothrica mesopoeyi Burla 1956:241.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14].

277. ***Zygothrica pallidipoeyi*** Burla
Zygothrica pallidipoeyi Burla 1956:237.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [168]; **SP** [14].

278. ***Zygothrica palpipoeyi*** Burla
Zygothrica palpipoeyi Burla 1956:243.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [168].

279. ***Zygothrica parvipoeyi*** Burla
Zygothrica parvipoeyi Burla 1956:239.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

280. ***Zygothrica ptilialis*** Burla
Zygothrica ptilialis Burla 1956:245.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

281. ***Zygothrica vittimarmorata*** Burla
Zygothrica vittimarmorata Burla 1956:232.
Type locality: São Paulo, São Paulo, Brazil.
Geographical distribution: **SP** [168].

282. ***Zygothrica vittinotialis*** Burla
Zygothrica vittinotialis Burla 1956:230.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

283. ***Zygothrica vittipoecila*** Burla
Zygothrica vittipoecila Burla 1956:231.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [168].

284. ***Zygothrica vittisecta*** Burla
Zygothrica vittisecta Burla 1956:232.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

285. ***Zygothrica vittivirgata*** Burla
Zygothrica vittivirgata Burla 1956:228.
Type locality: Itatiaia, São Paulo, Brazil.
Geographical distribution: **SP** [14, 168].

Steganinae subfamily
Amiota genus
Amiota subgenus
286. ***Amiota steganoptera*** Malloch
Amiota steganoptera Malloch 1926:31.
Type locality: Higuito, San Mateo, Costa Rica.
Geographical distribution: [localities not mentioned] [2, 188].

Leucophenga genus
Leucophenga subgenus
287. ***Leucophenga argenteofasciata*** Kahl
Leucophenga argenteofasciata Kahl 1917:371 (as *argenteo-fasciata*).
Type locality: Santarém, Pará, Brazil.
Geographical distribution: **PA** [5, 6].

288. ***Leucophenga brazilensis*** Malloch
Leucophenga brazilensis Malloch 1924:9.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [178].

289. ***Leucophenga frontalis*** (Williston)
Drosophila frontalis Williston 1896:413.
Type locality: Saint Vicente, West Indians.
Geographical distribution: [localities not mentioned] [3].

290. ***Leucophenga hasemani*** Kahl
Leucophenga hasemani Kahl 1917:375.
Type locality: Munez Freire, Espirito Santo, Brazil.

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Geographical distribution: **ES** [6].

291. ***Leucophenga maculosa*** (Coquillett)
Drosophila maculosa Coquillett, in Johnson 1895:317.
Type locality: Florida, USA.
Geographical distribution: [localities not mentioned] [2, 3].

292. ***Leucophenga obscuripennis*** (Loew)
Drosophila obscuripennis Loew 1866:183.
Type locality: Cuba.
Geographical distribution: [localities not mentioned] [3].

Pseudiastata genus
Pseudiastata subgenus
293. ***Pseudiastata brasiliensis*** Lima
Pseudiastata brasiliensis Lima 1937:179.
Type locality: São Gonçalo, Rio de Janeiro, Brazil.
Geographical distribution: **PE** [189]; **RJ** [190, 191].

294. ***Pseudiastata pseudococcivora*** Sabrosky
Pseudiastata pseudococcivora Sabrosky 1951:624.
Type locality: Canal Zone, Panama.
Geographical distribution: **BA** [189]; **PE** [189].

Rhinoleucophenga genus
295. ***Rhinoleucophenga angustifrons*** Malogolowkin
Rhinoleucophenga angustifrons Malogolowkin 1946:425.
Type locality: Angra dos Reis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [192].

296. ***Rhinoleucophenga brasiliensis*** (Lima)
Gitona brasiliensis Lima 1950:251.
Type locality: Brazil.
Geographical distribution: [localities not mentioned] [2, 3].

297. ***Rhinoleucophenga fluminensis*** (Lima)
Gitona fluminensis Lima 1950:249.
Type locality: Brazil.
Geographical distribution: [localities not mentioned] [2, 3].

298. ***Rhinoleucophenga lopesi*** Malogolowkin
Rhinoleucophenga lopesi Malogolowkin 1946:424.
Type locality: Rio de Janeiro, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [192].

299. ***Rhinoleucophenga matogrossensis*** Malogolowkin
Rhinoleucophenga matogrossensis Malogolowkin 1946:420.
Type locality: Salobra, Mato Grosso do Sul, Brazil.
Geographical distribution: **MS** [192].

300. ***Rhinoleucophenga nigrescens*** Malogolowkin
Rhinoleucophenga nigrescens Malogolowkin 1946:421.
Type locality: Salobra, Mato Grosso do Sul, Brazil.
Geographical distribution: **MS** [192].

301. ***Rhinoleucophenga obesa*** (Loew)
Drosophila obesa Loew 1872:102.
Phortica hirtifrons Johnson 1913:88.
Type locality: Texas, USA.
Geographical distribution: **MT** [192]; **RJ** [192]; **SC** [12]; **SP** [192].

302. ***Rhinoleucophenga personata*** Malogolowkin
Rhinoleucophenga personata Malogolowkin 1946:422.
Type locality: Salobra, Mato Grosso do Sul, Brazil.
Geographical distribution: **MS** [192].

Stegana genus
Ceratostylus subgenus
303. ***Stegana fumipennis*** (Enderlein)
Ceratostylus fumipennis Enderlein 1922:296.
Type locality: Santa Catarina, Brazil.
Geographical distribution: **SC** [193].

Steganina subgenus
304. ***Stegana brasiliensis*** (Duda)
Protostegana brasiliensis Duda 1927:27.
Type locality: Petrópolis, Rio de Janeiro, Brazil.
Geographical distribution: **RJ** [5].

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